

## ACCESS SERVICE

16. Packet Data Services16.1 Public Data Network (PDN)16.1.1 General

- (A) Public Data Network (PDN) is a service which provides network transport for data services. The service utilizes packet switching technology (where the data is divided into blocks - packets with a fixed maximum length) and digital transmission facilities to provide common user switched data transport. The PDN consists of packet switches, access concentrators with modems and analog and digital facilities which provide for simultaneous two-way transmission of data signals at various speeds. The PDN connects customers (end users) to customers (information providers, end users, Interexchange Carriers and other Packet Networks).
- (B) Customers access the PDN in three ways; by using exchange telephone service; by having direct access by way of Special Access Service as described in Section 7; and by having packet switch access by way of Special Access as described in Section 7.
- (C) The technical specifications for PDN service are as described in the Telephone Company Publication TR 72211.
- (D) PDN provides the ability to originate and terminate calls as follows:
  - (1) Exchange Service Access
    - (a) Dial Access - Originate Only (up to 1200 and 2400 bps)
    - (b) ISDN Direct - Originate and terminate (up to 9600 bps)
  - (2) Direct Access - Originate and Terminate (up to 1200, 2400, 4800, and 9600 bps)
  - (3) Packet Switch Access - Originate and Terminate (9.6 and 56 Kbps)

The originating and terminating messages are transported through the network in data packets. Data packets pass from the access concentrator to the packet switch in the originating or terminating direction. Packets remain in the proper sequence by means of the establishment of virtual circuits using transport capabilities of the X.25 protocol.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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(E) PDN provides different billing options depending upon the type of customer access. The billing options are:

(1) Dial Access - Reverse Charge Only.

(2) Direct and ISDN Direct Access

(a) Originating calls:

1) Prepaid - Unless specifically identified on a call by call basis all originating traffic will be charged to the calling party.

2) Reverse Charge - Unless specifically identified on a call by call basis all originating traffic will be reverse charged to the called party.

(b) Terminating calls:

1) Reverse Charge Acceptance - Customers who previously select this option will accept the charges for all calls sent to the network address(es) assigned to the customer.

2) Reverse Charge Denied - Customers who previously select this option will be able to receive calls that have been billed to the originating caller.

(3) Packet Switch Access

(a) Originating calls - See (2) (a) preceding.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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(E) (Cont'd)

(3) Packet Switch Access (Cont'd)

(b) Terminating - See (2) (b) preceding.

(c) Usage charges - See (2) (c) preceding.

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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All three forms of Dial Access are initiated within the PDN-equipped LATA by dialing a PDN access number via the customer's existing exchange line. Dial access to PDN is provided by the Company from the appropriate local exchange services tariff.

## (1) Generic Dial Access

Users will access these ports by dialing a telephone number and then must furnish via the connected data terminal (DTE), the Network Address with which the calling user wishes to communicate. Error Correction for the asynchronous interface is also available.

## (2) Auto Call Ports/Dedicated Dial Ports

Specially programmed PDN dial-in ports, assigned to a unique customer and accessed by a telephone number, which allows the connection of a dial-in terminal directly to a host data base DTE within the PDN equipped LATA or to an external DTE via the services of an Interexchange Carrier (IC). The connection is affected without the need for the originating DTE to specify call routing details on a per call basis. Essentially, as soon as the PDN dial-up modem "handshakes" with the modem of the originating DTE, a call request packet is transmitted to the terminating DTE and a virtual connection is established.

Auto Call Ports may also be assigned to customers with Switched Access, as described in Section 6.2.2 and 6.3.2.1, when used in conjunction with Transaction Service described in 16.1.1(A) (3) following.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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2980 Fairview Park Drive, Falls Church, Virginia 22042

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Transaction Service is designed for on-line electronic processing applications, such as credit verification, debit transactions, and electronic claims submittal and verification. Such applications are characterized by short duration calls between the location where the transaction is initiated and the processor host database.

Transaction services are available with two PDN options:

Public Access Ports

Customers using Public Access ports dial a telephone number to connect to the PDN, via the connected DTE, and then furnish the destination Network Address. In addition to the Transaction Service Public Access per transaction charge, Kilopacket Transport as specified in section 16.1.4.2(B) applies in accordance with the rate table in section 16.1.3(B).

Private Access Ports

Customers using Private Access ports dial the telephone number of specially programmed Auto Call Ports, ordered separately, and do not have to furnish the destination address on each call. In addition to the Transaction Service Private Access per transaction charge, Kilopacket Transport as specified in section 16.1.4.2(B) applies in accordance with the rate table in section 16.1.3(B). The customer also must order Auto Call ports as specified in section 16.1.4.1(C).

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Issued: April 13, 2001

Effective: April 28, 2001

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The Access Connection rate element provides a dedicated connection to an access concentrator or a packet switch. There are two types of access connections, the Direct Access Connection and the Packet Switch Access Connection:

- (1) A Direct Access Connection provides the customer dedicated access to a port on the access concentrator at transmission speeds of up to 1.2, 2.4, 4.8 and 9.6 Kbps, with Asynchronous, Bisynchronous or X.25 protocols.
- (2) A Packet Switch Access Connection provides the customer with a dedicated connection to a port on the packet switch at transmission speeds of 9.6 or 56 Kbps with either X.25 or X.75 protocols.

(C) Network Usage

The Network Usage rate elements provide a customer the ability to send packets of data and the transport of those packets, to another customer. There are two types of Network Usage Charges; Network Connection Time and Kilopacket Transport.

(1) Network Connection Time

Network Connection Time provides a Dial Access customer the use of the network from the time the call is connected until it is terminated. Network Connection Time is billed to the terminating network address or Interexchange Carrier of the PDN dial access call. Network Connection time applies only to Generic Dial Access.

(2) Kilopacket Transport

Kilopacket Transport provides for the routing of the packets over the PDN in both the originating and terminating directions. Usage charges are based on the number of kilopackets transmitted over the PDN for all types of access.

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Issued: April 13, 2001

Effective: April 28, 2001

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The following is a list of the Telephone Company's Open Network Architecture (ONA) Public Data Network Basic Service Elements (BSEs) which provides a cross-reference to the generic name contained in Bell Operating Companies, Service Descriptions, ONA Services User Guide, July 31, 1991, from the product name utilized in this tariff.

<u>GENERIC NAME</u>	<u>TELEPHONE COMPANY PRODUCT NAME</u>
Call Detail Recording Reports - Packet	Monthly Detailed Connection File
Call Redirection - Packet	Call Redirection
Closed User Groups - Packet	Closed User Groups
Fast Select Acceptance - Packet	Fast Select Acceptance
Hunt Groups - Packet	Multiple Channel Hunt Groups
Multiple Network Addresses/Port - Packet	Multiple Network Addresses
Preselection For Data Services	Recognized Private Operating Authority (RPOA) Preselection
Reverse Charge Acceptance - Packet	Reverse Charge Acceptance

Optional Features, many of which are Basic Service Elements (BSEs), provide the capability for Direct or Packet Switch Access customers to interact with the PDN as follows:

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Issued: April 13, 2001

Effective: April 28, 2001

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2980 Fairview Park Drive, Falls Church, Virginia 22042

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- (1) Closed User Group (CUG) - A CUG is a specific group of Data Terminals which interconnect with each other. Each customer's channel may be associated with as many as ten CUGs. Each data terminal in a CUG can be arranged in one of the modes following:
  - Terminating Access\* - The data terminal receives incoming calls only.
  - Outgoing Access - The data terminal makes outgoing calls only.
  - Unrestricted Access - The data terminal receives and makes both incoming and outgoing calls.
  - Denial of Terminating Calls\* - The data terminal receives incoming calls only from the data terminals in the CUG with which it is associated.
  - Denial of Originating Calls\* - The data terminal makes outgoing calls only to the data terminals in the CUG with which it is associated.
- (2) Monthly Detailed Connection File□ - The monthly detailed connection file is a magnetic tape containing detailed call completion records associated with all customer channels within an account. This file is only available to the customer being billed for the service and contains all network usage.
- (3) Multiple Channel Hunt Group - Multiple circuits can be arranged in a hunt group with a single Network Address. Terminating calls are distributed equally over the ports. Hunt groups can have a maximum of sixty-four circuits.

\* Available with Asynchronous and X.25 protocols only.

□ Available with X.25 and X.75 protocols only.

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Issued: April 13, 2001

Effective: April 28, 2001

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- (4) Multiple Network Addresses\* (MNA) - Customers may obtain for each direct or packet switch access connection, multiple MNAs to which calls can be delivered according to the customer's predetermined specifications.
- (5) Permanent Virtual Circuit (PVC) - PVCs allow direct and packet switch access customers to establish a dedicated path which provides a security/privacy feature between themselves and a specific location.
- (6) Packet Size Negotiation☐ - Packet Size Negotiation is available only for a maximum size of 256 octets per packet. Billing for Kilopacket Transport with this option is at the 128 octet rate.
- (7) Window Size Negotiation☐ - The window size is defined as the maximum number of unacknowledged packets allowed at any given time. Default window size is 2 packets. Negotiated maximum window size is 3 packets. Negotiation is always down, from the maximum.
- (8) Throughput Class Negotiation☐ - This function permits negotiation on a per call basis of the throughput classes for each direction of data transmission.
- (9) Call Redirection - Call Redirection allows the customer's virtual calls to be automatically forwarded to an alternate destination if the original destination is busy, out of order, or has requested systematic redirection. The number of redirects per call is limited to one. Call Redirection is offered on an X.25 basis or on an Asynchronous and/or Bisynchronous basis; calls will not be redirected to an X.75 protocol access connection.

\* Available with Asynchronous and X.25 Protocols only.

☐ Available with X.25 and X.75 Protocols only.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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- (10) Mnemonic Addressing - Mnemonic Addressing allows the automatic translation of a 3 or 4 character code-word into a data telephone number identifying the called address. This facility is available to a customer on Packet Switch Access and Direct Access.
- (11) Network User Identification (NUI) - Provides the Telephone Company the ability to identify and directly bill specific dial-up end user customers for minutes of use, network connection charges and kilopacket usage. A NUI will be a six-digit alphanumeric code and is only used for dial-up access connections. The network can support up to 6,000 NUIs per access concentrator and is only available to users with X.25 packet switch connections to a host. Separate charges apply for each NUI number requested, for each location (access concentrator) at which the number is to be requested.
- (12) Network Management Report - Is a monthly paper format detailed call record of PDN usage which will provide identification of called and calling parties, time of day of the call, length of call and the number of kilopackets associated with the call. Separate reports are available for (1) the District of Columbia, Maryland, Virginia, and West Virginia; (2) New Jersey; (3) Eastern Pennsylvania and Delaware; (i.e., Philadelphia LATA); and (4) Western Pennsylvania (all other LATAs). Separate charges apply for each such report requested.
- (13) Reverse Charge Acceptance - This feature allows a call to be reverse charged to the terminating Data Terminal Equipment (DTE). If a reverse charge call is attempted to a DTE that does not have the reverse charge feature, the call will not be completed. This feature is available with direct access, X.25 protocol. This feature is provided at the time service is established; otherwise, the Rearrangement Charge specified in 16.4.4. applies.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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(14) RPOA Preselection - This feature allows the customer to preselect a preferred interconnect carrier (IC), also referred to as a Recognized Private Operating Authority (RPOA). This feature will automatically select that IC when the calling Data Terminal Equipment (DTE) initiates a call that requires an IC, unless the user selects a different IC when the call is initiated. This feature is available with direct access. This feature is provided at the time service is established; otherwise, the Rearrangement Charge specified in 16.4.4 applies.

(15) Fast Select Acceptance - This feature allows the called Data Terminal Equipment (DTE) to receive user data in the call set-up packet, when the user elects to originate a fast select call. If a fast select call is attempted to a DTE that does not have the fast select acceptance feature, the call will not be completed. This feature is available with direct access, X.25 protocol. This feature is provided at the time service is established; otherwise, the Rearrangement Charge specified in 16.4.4 applies.

(E) Rearrangement Charge

The Rearrangement charge applies as follows:

1. The speed of a direct access connection or packet switch access connection is changed.
2. A change is required at the direct access port without changing the network address.
3. The protocol of a line is changed.
4. Port or protocol parameters are changed.
5. Existing channels are added to a closed user group.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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6. Existing channels are added to a multiple channel hunt group.
7. Existing channels are established as part of a permanent Virtual Circuit.
8. Existing Packet Size is changed.\*
9. Existing Window Size is changed.\*
10. Existing Throughout Class is changed.\*
11. Existing Call Redirection destination is Changed.\*
12. Existing Mnemonic Addressing is changed.\*
13. A change is required to rearrange the Network Addresses on Bisynchronous Protocols.\*
14. Existing Reverse Charge Acceptance is changed.
15. Existing RPOA Preselection is changed.
16. Existing Fast Select Acceptance is changed.

In addition, the rates and charges for Special Access Service as described in Section 7 and for Switched Access as described in Section 6 apply for each circuit connected to an access concentrator or packet switch and local exchange service applies for all dial access.

\* Only one Rearrangement Charge is applicable for changes to one or more of these features when requested at the same time.

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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16. Packet Data Services (Cont'd)16.1 Public Data Network (PDN) (Cont'd)16.1.2 Provisions and Descriptions of Customer Access16.1.2.1 Dial Access

Dial Access is initiated by dialing a PDN access number via a customer's existing exchange line. Dial Access is provided by the Telephone Company from its local exchange services tariff and the charges specified therein apply for each completed call to the PDN access number. Generic Dial Access supports asynchronous protocol and transmission speeds of up to 1200 and 2400 bps. Auto Call and Dedicated Dial Access support asynchronous protocol and transmission speeds of 300, 1200, and 2400 bps, except when Auto Call Access is used in conjunction with Transaction Service. Transaction Service supports asynchronous protocol and transmission speeds of 300 and 1200 bps.

16.1.2.2 Direct Access(A) Description

Direct Access is provided through channels (circuits) as defined in Section 7 to connect the customer to a port on the access concentrator. Direct Access supports three types of access concentrator protocol, asynchronous, bisynchronous, and X.25. Each port has a unique network address. Direct Access is provided with transmission speeds of up to 1.2, 2.4, 4.8 and 9.6 Kbps.

The types of Direct Access are described as follows:

(1) Asynchronous protocol

Asynchronous protocol provides the capability of establishing a single communications link from the customer through the PDN.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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Bisynchronous protocol provides the capability of establishing a communications link to another bisynchronous connection at speeds of up to 2.4 Kbps, 4.8 Kbps and 9.6 Kbps.

(3) X.25 protocol

X.25 protocol provides the capability of establishing multiple virtual circuits from the customer through the PDN. The recommended number of circuits established is determined by the speed as follows:

<u>Speed</u>	<u>Virtual Circuits</u>
1.2 Kbps	4
2.4 Kbps	8
4.8 Kbps	16
9.6 Kbps	32

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Issued: April 13, 2001

Effective: April 28, 2001

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All Optional Features described in 16.1.1.1(D) are available with X.25 protocol.

(B) Technical Specifications

The technical specifications defined in Section 7 apply for channels (circuits) provided to the access concentrators.

16.1.2.3 Packet Switch Access(A) Description

Packet Switch Access is provided through channels (circuits) as defined in Section 7 to connect a customer directly to a port on the packet switch. This arrangement supports high speed 9.6 or 56 Kbps channels and either X.25 or X.75 protocol. The X.75 protocol provides load distribution. Packet Switch Access has the capability of establishing multiple virtual circuit links from the customer through the PDN.

(1) X.25 Protocol

The recommended number of virtual circuits established is determined by the speed as follows:

<u>Speed</u>	<u>Virtual Circuits</u>
9.6 Kbps	128
56 Kbps	256

All Optional Features described in 16.1.1.1(D) are available with X.25 protocol.

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Issued: April 13, 2001

Effective: April 28, 2001

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The recommended number of multiple virtual circuits established is determined by the speed as follows:

<u>Speed</u>	<u>Virtual Circuits</u>
9.6 Kbps	128
56 Kbps	256

(B) Technical Specifications

The technical specifications defined in Section 7 apply for channels (circuits) provided to the packet switch.

(C) Temporary Takedown

With prior written notice to the Telephone Company, a Packet Switch Access customer may request temporary takedown (removal from service) of a packet switch access port. The two available takedown procedures are described in Telephone Company Publication TR 72211.

The credit allowance for Service Interruptions specified in Section 2.4.4 does not apply during the period of such temporary takedown.

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Issued: April 13, 2001

Effective: April 28, 2001

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.1 Public Data Network (PDN) (Cont'd)16.1.3 Rate Regulations

## B. Rate Table for Time of Day Pricing

	MON	TUES	WED	THUR	FRI	SAT	SUN
8:00 AM							
to	Rate Period 1					#	#
*5:00 PM							
5:00 PM							
to	Rate Period 2						
*11:00 PM							
11:00 PM							
to	Rate Period 3						
*8:00 AM							

\* To but not including

# Rate Period 2 applies

Rate Period 2 applies for the holidays specified in Section 2.4.1(B) (3) (a) of this tariff.

The Rate Periods are listed in Section 16.1.4.2(B) following.

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Issued: April 13, 2001

Effective: April 28, 2001

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(1) Asynchronous Protocol, For transmission speeds of:	USOC	Monthly Nonrecurring	
		Rate	Charges
- 1.2 Kbps.....	LPP12	\$33.51	\$70.85
- 2.4 Kbps.....	LPP24	40.21	70.85
- 4.8 Kbps.....	LPP48	62.24	70.85
- 9.6 Kbps.....	LPP96	81.39	70.85
(2) Bisynchronous Protocol, Up to a maximum of 32 addresses for transmission speeds of:			
- 0 to 2.4 Kbps Initial Group of 4 addresses.....	LRG24	49.79	70.85
Additional Group of 4 addresses..	LPY	9.57	None *
- 4.8 Kbps Initial Group of 4 addresses.....	LRG48	71.81	70.85
Additional Group of 4 addresses..	LPY	9.57	None *
- 9.6 Kbps Initial Group of 4 addresses.....	LRG96	90.96	70.85
Additional Group of 4 addresses..	LPY	9.57	None *

\* If installed subsequent to the initial installation a nonrecurring charge as specified in 16.1.4.4 following will apply.

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Issued: April 13, 2001

Effective: April 28, 2001

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(3) X.25 Protocol, For transmission speeds of:	<u>USOC</u>	<u>Monthly Nonrecurring</u>	
		<u>Rate</u>	<u>Charges</u>
- 1.2 Kbps.....	LDZ12	\$ 33.51	\$ 70.85
- 2.4 Kbps.....	LDZ24	40.21	70.85
- 4.8 Kbps.....	LDZ48	62.24	70.85
- 9.6 Kbps.....	LDZ96	81.39	70.85

(B) Packet Switch Access

(1) X.25 Protocol,  
Per port connected for  
speeds of:

- 9.6 Kbps.....	LDD96	287.25	None
-56.0 Kbps.....	LDD56	909.62	None

(2) X.75 Protocol,  
Per port connected for  
speeds of:

- 9.6 Kbps.....	LDD97	287.25	None
-56.0 Kbps.....	LDD57	909.62	None

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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The rates established for Auto Call Ports include the ports themselves, the associated modems and central office "cross connections" as well as line terminations and telephone numbers, when applicable.

NOTE: The customer, at service provisioning time, must specify any optional features as well as the destination Network Address and the appropriate Interexchange Carrier.

Asynchronous Protocol

		Monthly Installation	
		<u>USOC</u>	<u>Charge</u>
Auto Call Port			<u>Charge</u>
Initial	-	LJP \$119.69	\$ 96.60
Additional	-	LRQ 71.81	96.60

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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The rates established for Dedicated Dial Ports include the ports themselves and the associated modems. The associated "Dialtone" line is ordered by the customer from the appropriate local exchange services tariff.

NOTE: The customer, at service provisioning time, must specify any optional features as well as the destination Network Address and the appropriate Interexchange Carrier.

Asynchronous Protocol

		Monthly Installation	
		<u>USOC</u>	<u>Charge</u>
Dedicated Dial Port			<u>Charge</u>
Initial	-	LGY \$107.24	\$ 96.60
Additional	-	LGZ 59.36	96.60

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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<u>Port Type</u>	<u>Rate</u>
Public Access - per transaction	\$ .005
Private Access - per transaction	\$ .001

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Issued: April 13, 2001

Effective: April 28, 2001

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or fraction thereof

1. <u>Generic Port</u>	<u>Rate</u>
- Initial Minute.....	\$ 0.030
- Additional Minute.....	0.010

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Issued: April 13, 2001

Effective: April 28, 2001

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16. Packet Data Services (Cont'd)16.1 Public Data Network (PDN) (Cont'd)16.1.4 Rates and Charges (Cont'd)16.1.4.2 Network Usage (Cont'd)

(B) Kilopacket Transport by Rate Period \*, per  
Kilopacket or fraction thereof, per customer,  
per company.

<u>No. of Kilopackets</u>	<u>Rate Period 1</u>	<u>Rate Period 2</u>	<u>Rate Period 3</u>
Up to 100	\$ .53	\$ .39	\$ .24
Up to 500	.50	.38	.24
Up to 2000	.48	.37	.24
Up to 3000	.45	.36	.24
Up to 4000	.43	.35	.24
Up to 5000	.41	.34	.24
Up to 6000	.39	.33	.24
Over 6000	.37	.32	.24

For example, a customer who used 3800 kilopackets during Rate Period 1 would be billed \$.43 for each kilopacket transported. A customer who used 490 kilopackets during Rate Period 2 would be billed \$.38 for each kilopacket transported.

Company refers to Verizon Delaware Inc.; Verizon Maryland Inc.; Verizon New Jersey Inc.; Verizon Pennsylvania Inc.; Verizon Virginia Inc.; Verizon Washington, D.C. Inc.; and Verizon West Virginia Inc.

\* The rate schedule time periods are defined in Section 16.1.3(B) - Rate Table for Time of Day Service.

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.1 Public Data Network (PDN) (Cont'd)16.1.4 Rates and Charges (Cont'd)16.1.4.3 Optional Features

	USOC	Monthly Rate	Nonrecurring Charges
(A) Closed User Group - Per channel, per group	LDJ	\$ 9.57	None
(B) Monthly Detailed Connection File - Per billing account...	MAJ1T	220.22	None
(C) Multiple Channel Hunt Group - Per hunt group.....	LDM	9.57	None
(D) Multiple Network Addresses - Per 100 numbers.....	LDQ	71.81	None
(E) Permanent Virtual Circuit - Each.....	LDV	9.57	None
(F) Packet Size Negotiation - Each.....	LNP	9.57	None *
(G) Window Size Negotiation - Each.....	LNW	9.57	None *
(H) Through Put Class Negotiation - Each.....	LD1	9.57	None *
(I) Call Redirection - Each.....	LRD	None	\$ 24.15*
(J) Mnemonic Addressing - Each.....	LJE	None	144.90*
(K) Network User Identification - Per number, per location..	NUK	5.00	7.00
(L) Network Management Reports - Per customer, and per report.....	NMN	50.00	75.00

\* In addition, if installed subsequent to the initial installation a nonrecurring charge as specified in 16.1.4.4 following will apply.

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.1 Public Data Network (PDN) (Cont'd)16.1.4 Rates and Charges (Cont'd)16.1.4.3 Optional Features (Cont'd)

		Monthly Nonrecurring		
		<u>USOC</u>	<u>Rate</u>	<u>Charges</u>
(M) Reverse Charge Acceptance				
- per access connection	LD4	None	\$	2.24 *
(N) RPOA Preselection				
- per access connection	LRJXX	None		2.24 *
(O) Fast Select Acceptance				
- per access connection	FSA	None		2.24 *

\* In addition, if installed subsequent to the initial installation a non recurring charge as specified in 16.1.4.4 following will apply.

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.1 Public Data Network (PDN) (Cont'd)16.1.4 Rates and Charges (Cont'd)16.1.4.4 Rearrangement Charge

	<u>USOC</u>	<u>Nonrecurring Charges</u>
- Per rearrangement..	X25	\$72.45

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services16.2 Exchange Access Switched Multi-Megabit Data Service\* (XASMDS)16.2.1 General

Effective December 16, 2000, this service will be provided by the Company only in the State of New Jersey. Provision of this service in all other states will be through Verizon Advanced Data, Inc.

Effective December 2, 2000, this service in the states of Pennsylvania and Delaware will no longer be provided by the Telephone Company but through Verizon Advanced Data, Inc.

Exchange Access Switched Multi-Megabit Data Service (XASMDS) is a connectionless, packet-switched data service allowing for the interconnection of Local Area Networks (LANs) or other compatible customer equipment across a wide area for the purpose of interstate access. XASMDS provides throughput over 56 kbps, 1.5 Mbps and 45 Mbps digital facilities with customer access interfaces of 56 kbps and 1.17, 1.54, 4, 10, 16, 25, and 34 Mbps.

The XASMDS switch breaks down data into packets and addresses each separately. Each packet is switched independently without prior establishment of a network connection. An XASMDS address is a unique number that identifies an end user access line. This address allows the XASMDS network to route the customer data traffic. Addresses are based on the International Telecommunications Union-Telecommunications Standardization Sector (ITU-TSS) Recommendation E.164 plan.

Access to the Bell Atlantic XASMDS network is via a Subscriber Network Interface (SNI) Port Connection, or a Carrier Interface Port Connection. The Carrier Interface and SNI Port Connections provide electrical interfaces for a customer's 56 kbps transmission facility, 1.5 Mbps transmission facility with B8ZS and ESF, or 45 Mbps transmission facility with B3ZS. DDS, DS1 and DS3 rated channel terminations from Section 7 may be used as the transport facilities; Collocated Interconnection Service (CIS) DS1 or DS3 Cross-Connect Service and SPOT Bay Frame and Terminations as listed in Section 19 are used for intraoffice transport with customer provided transport facilities. (See Note below.)

(C)

\* Effective January 1, 2002, this service will no longer be available to new Customers. New subscriber network interfaces for existing XASMDS customers will not be available effective January 1, 2002. Existing XASMDS Customers are also limited to current in-place facilities effective January 1, 2002. Transfers to new service locations or upgrades to existing subscriber network interface access connections will not be available effective January 1, 2002.

Note: See Section 19 following for additional information.

(N)

(Issued under Transmittal No. 412)

Issued: February 2, 2004

Effective: February 17, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.2 Exchange Access Switched Multi-Megabit Data Service\* XASMDS)  
(Cont'd)16.2.1 General (Cont'd)

All SNI access facilities must be in conformance with Telcordia Technical Reference TR-TSV-000772, "Generic System Requirements in Support of Switched Multi-Megabit Data Service", Issue 1, May 1991 and TR-TSV-000773, "Local Access System Generic Requirements, Objectives, and Interfaces in Support of Switched Multi-megabit Data Service", Issue 1, June 1991 for 1.17 through 34 Mbps, or TR-TSV-001239, "Generic Requirements for Low Speed SMDS Access", Issue 1, December 1993 for 56 kbps and 1.54 Mbps. All Carrier Interface access facilities must be in conformance with either the Siemens document EWSM® Feature Technical Description, "DS1/DS3 Interexchange Carrier Interface", Issue 2 May 1993, for the Inter-MAN Gateway (IMG), or the Telcordia Technical Reference TR-TSV-001060, "Switched MultiMegabit Data Service: generic requirements for Exchange Access and InterCompany Serving Arrangements", Issue 1 March 1993, for the InterCarrier Interface (ICI). (C)

XASMDS is generally available and is ordered through the access service order process. The Access Order Service Date Interval for XASMDS is negotiated. See Section 5.

\* Effective January 1, 2002, this service will no longer be available to new Customers. New subscriber network interfaces for existing XASMDS customers will not be available effective January 1, 2002. Existing XASMDS Customers are also limited to current in-place facilities effective January 1, 2002. Transfers to new service locations or upgrades to existing subscriber network interface access connections will not be available effective January 1, 2002. (N)

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(Issued under Transmittal No. 131)

Issued: December 17, 2001

Effective: January 1, 2002

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

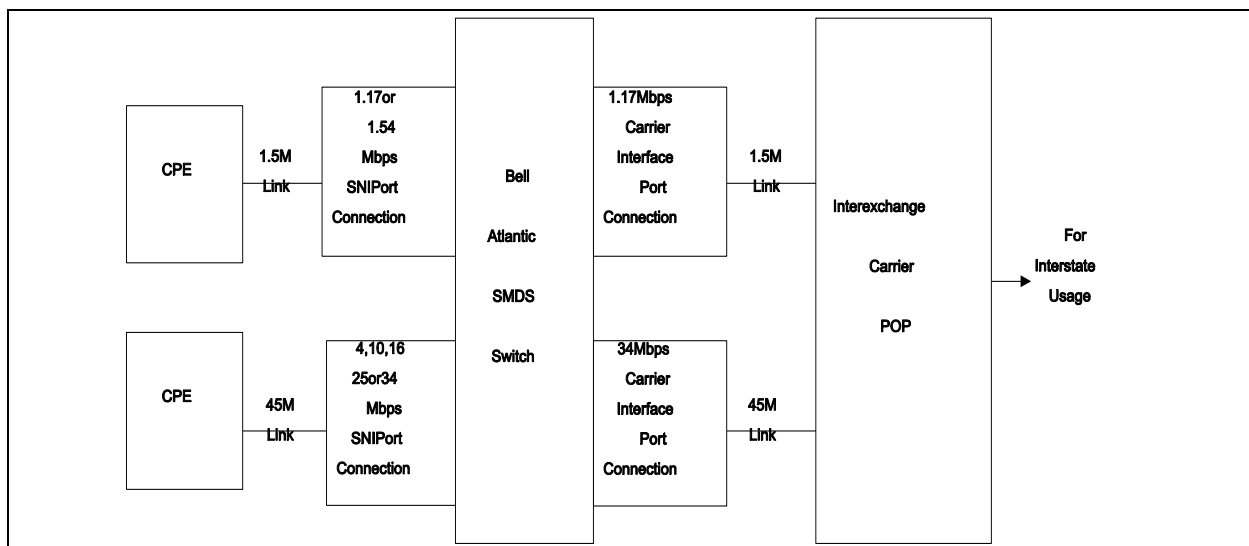
## ACCESS SERVICE

16. Packet Data Services16.2 Exchange Access Switched Multi-Megabit Data Service\* (XASMDS)  
(Cont'd)

(C)

16.2.1 General (Cont'd)

The following diagram depicts a generic view of the components of XASMDS Service and the manner in which the components are combined to provide a complete XASMDS connection.

**SWITCHED MULTI-MEGABIT DATA SERVICE**

\* Effective January 1, 2002, this service will no longer be available to new Customers. New subscriber network interfaces for existing XASMDS customers will not be available effective January 1, 2002. Existing XASMDS Customers are also limited to current in-place facilities effective January 1, 2002. Transfers to new service locations or upgrades to existing subscriber network interface access connections will not be available effective January 1, 2002.

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(Issued under Transmittal No. 131)

Issued: December 17, 2001

Effective: January 1, 2002

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.2 Exchange Access Switched Multi-Megabit Data Service\* XASMDS) (C)  
(Cont'd)16.2.1 General (Cont'd)(A) Subscriber Network Interface (SNI) Port Connection

The SNI is a standard interface (port) at a XASMDS switch. At the SNI, the XASMDS switch screens both source and destination addresses. This is done to validate that information intended for a given location is only received by that location, and to validate that a given location transmits information only to authorized receiving locations. At least one address is assigned per XASMDS access facility. Each XASMDS access facility may support up to 16 addresses.

One of two standard SNIs is provided at the customer's option. The available types are the Data Exchange Interface (DXI) and the SMDS Interface Protocol (SIP). The DXI operates over electrical facilities at a maximum data transmission rate of 1.54 Mbps. The SIP operates over electrical facilities at a maximum transmission rate of 1.17 Mbps or over fiber facilities at a maximum transmission rate of 34 Mbps.

The SNI Port Connection provides a XASMDS Network interface for a customer's 56 kbps, 1.5 Mbps or 45 Mbps transmission facility that links the customer location to the network. It also provides the network connection for a customer's Collocated Interconnection Service Cross-Connect Service or SPOT Bay Frame and Terminations. SNI Port Connections are available at speeds of 56 kbps and 1.17, 1.54, 4, 10, 16, 25, and 34 Mbps.

\* Effective January 1, 2002, this service will no longer be available to new Customers. New subscriber network interfaces for existing XASMDS customers will not be available effective January 1, 2002. Existing XASMDS Customers are also limited to current in-place facilities effective January 1, 2002. Transfers to new service locations or upgrades to existing subscriber network interface access connections will not be available effective January 1, 2002. (N)

Certain material formerly appearing on this page now appears on Page No. 16-31.1.

(Issued under Transmittal No. 131)

Issued: December 17, 2001

Effective: January 1, 2002

Vice President  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.2 Exchange Access Switched Multi-Megabit Data Service\* (XASMDS) (C)  
(Cont'd)16.2.1 General (Cont'd)(B) Carrier Interface Port Connection (M)

The Carrier Interface Port Connection provides connection to the XASMDS Network of a customer's 1.5 Mbps or 45 Mbps digital transmission facility, including DS1 and DS3 Collocated Interconnection Service Cross-Connect Service and SPOT Bay Frame and Terminations. The Carrier Interface specifies how an XASMDS switch sends and receives data to or from a customer's network. The Carrier Interface does not support source address validation or address screening.

Two types of Carrier Interfaces are used in the XASMDS Network; the Inter-MAN Gateway (IMG) or the InterCarrier Interface (ICI). Depending on availability, the customer orders either an IMG or an ICI Carrier Interface Port Connection. The ICI Carrier Interface Port Connection is available at a speed of 34 Mbps; the IMG Carrier Interface Port Connection is available at both 1.17 and 34 Mbps. A customer's connecting 1.5 Mbps facility must be equipped with B8ZS and ESF, and a 45 Mbps facility must have B3ZS.

\* Effective January 1, 2002, this service will no longer be available to new Customers. New subscriber network interfaces for existing XASMDS customers will not be available effective January 1, 2002. Existing XASMDS Customers are also limited to current in-place facilities effective January 1, 2002. Transfers to new service locations or upgrades to existing subscriber network interface access connections will not be available effective January 1, 2002. (N)

(M) Material currently appearing on this page formerly appeared on Page No. 16-31.

(Issued under Transmittal No. 131)

Issued: December 17, 2001

Effective: January 1, 2002

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.2 Exchange Access Switched Multi-Megabit Data Service\* (XASMDS) (C)  
(Cont'd)16.2.1 General (Cont'd)(B) Carrier Interface Port Connection (Cont'd)(1) Originating XASMDS

Originating XASMDS refers to the Telephone Company delivering, on an originating basis, an end-user's data to the IC of the end user's choice when interexchange service is requested.

(2) Terminating XASMDS

Terminating XASMDS refers to the Telephone Company delivering on a terminating basis, data arriving from a customer's switch to end-users that the Telephone Company serves directly via the end-user's SNI.

(C) Optional SNI Features(1) Group Address

Allows an end user to use a single address to collectively identify a grouping of locations and SMDS addresses including those of other customers. The SMDS network will replicate this information and deliver it to the different locations. There is a maximum of 8 group addresses per SNI.

(2) Additional Addresses

Multiple XASMDS addresses may be associated with a single SNI connection. A maximum of 16 addresses per SNI is allowed.

\* Effective January 1, 2002, this service will no longer be available to new Customers. New subscriber network interfaces for existing XASMDS customers will not be available effective January 1, 2002. Existing XASMDS Customers are also limited to current in-place facilities effective January 1, 2002. Transfers to new service locations or upgrades to existing subscriber network interface access connections will not be available effective January 1, 2002. (N)

(M) Material currently appearing on this page formerly appeared on Page No. 16-31.

(Issued under Transmittal No. 131)

Issued: December 17, 2001

Effective: January 1, 2002

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2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.2 Exchange Access Switched Multi-Megabit Data Service\* (XASMDS) (C)  
(Cont'd)16.2.1 General (Cont'd)(D) Northern Corridor Option

Effective December 15, 1999, the Northern Corridor Option is not available for new requests. All current customers will be converted to a new service offering or allowed to terminate without liability by March 31, 2000.

The Northern Corridor Option provides SMDS SNI Port Connection subscribers in the New Jersey Corridor the ability to connect to locations in New York City. A DS1 or DS3 (1.5 or 45 Mbps facility, respectively) is provided for transmission from the XASMDS switch in Newark, New Jersey to the Corridor locations in New York City.

(E) Maintenance Windows

Network maintenance and network upgrades for XASMDS are performed during the hours of 11:00 p.m. and 8:00 a.m. At times, during the hours of maintenance activity, it will be necessary to place a customer's service in an inactive (out of service) condition. The amount of time that this scheduled out of service condition will exist is called a "maintenance window". The Company will provide the customer notice prior to the maintenance window. Maintenance window activity could be scheduled for consecutive days.

\* Effective January 1, 2002, this service will no longer be available to new Customers. New subscriber network interfaces for existing XASMDS customers will not be available effective January 1, 2002. Existing XASMDS Customers are also limited to current in-place facilities effective January 1, 2002. Transfers to new service locations or upgrades to existing subscriber network interface access connections will not be available effective January 1, 2002. (N)

Certain material formerly appearing on this page now appears on Page No. 16-33.1.

(Issued under Transmittal No. 131)

Issued: December 17, 2001

Effective: January 1, 2002

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.2 Exchange Access Switched Multi-Megabit Data Service\* (XASMDS) (C)  
(Cont'd)16.2.2 Rate Categories(A) SNI Port Connection (M)

The charge for the port termination of a 56 kbps, a 1.5 Mbps, or a 45 Mbps digital transport facility from a subscriber location, or for the termination of a 1.5 or 45 Mbps Collocated Interconnection Service Cross-Connect Service or SPOT Bay Frame and Termination at a port on a XASMDS switch. SNI Port Connections are available at port speeds of 56 kbps and 1.17, 1.54, 4, 10, 16, 25, and 34 Mbps.

(B) Carrier Interface Port Connection

The charge to terminate a Carrier customer's transmission facility at a port on a XASMDS Switch. IMG Carrier Interface Port Connections are provided at access speeds of 1.17 and 34 Mbps, and the ICI Carrier Interface Port Connection is provided at an access speed of 34 Mbps.

\* Effective January 1, 2002, this service will no longer be available to new Customers. New subscriber network interfaces for existing XASMDS customers will not be available effective January 1, 2002. Existing XASMDS Customers are also limited to current in-place facilities effective January 1, 2002. Transfers to new service locations or upgrades to existing subscriber network interface access connections will not be available effective January 1, 2002. (N)

(M) Certain material now appearing on this page formerly appeared on Page No. 16-33.

(Issued under Transmittal No. 131)

Issued: December 17, 2001

Effective: January 1, 2002

Vice President  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.2 Exchange Access Switched Multi-Megabit Data Service\* (XASMDS) (C)  
(Cont'd)16.2.2 Rate Categories (Cont'd)(C) Port Upgrade

A Port Upgrade is a change to a higher or lower speed port that also requires a change in transmission facility; e.g., from 1.17 or 1.54 Mbps to speeds between 4 and 34 Mbps, or from 56 kbps to 1.54 Mbps.

Other changes in port speed are administrative.

(D) Optional SNI Port Connection Features(1) Group Address

A Group Address represents up to 48 individual addresses. Any particular individual address may be identified by up to 7 Group Addresses.

(2) Additional Address

Additional Addresses may be assigned per SNI. Each 56 kbps SNI may have up to 2 addresses; each higher speed port may have up to 16 addresses.

(E) Administrative Changes

Administrative Change charges apply for any changes or additions made to optional features; carrier subscription changes; or port changes between 4 Mbps through 34 Mbps access speeds.

16.2.3 Minimum Period

The minimum period for Exchange Access Switched Multi-Megabit Service is one month.

\* Effective January 1, 2002, this service will no longer be available to new Customers. New subscriber network interfaces for existing XASMDS customers will not be available effective January 1, 2002. Existing XASMDS Customers are also limited to current in-place facilities effective January 1, 2002. Transfers to new service locations or upgrades to existing subscriber network interface access connections will not be available effective January 1, 2002. (N)

(Issued under Transmittal No. 131)

Issued: December 17, 2001

Effective: January 1, 2002

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.2 Exchange Access Switched Multi-Megabit Data Service\* (XASMDS) (C)  
(Cont'd)16.2.4 Rates and Charges

**Effective December 16, 2000, this service will be provided by the Company only in the State of New Jersey. Provision of this service in all other states will be through Verizon Advanced Data, Inc.**

**Effective December 2, 2000, this service will no longer be provided in the states of Pennsylvania and Delaware by the Telephone Company but through Verizon Advanced Data, Inc.**

(A) SNI Port Connection                      USOC              Monthly              Nonrecurring  
- per connection,  
Month-to-Month

56 kbps	P9A8X	\$ 133.22	1.00
1.17 or 1.54 Mbps	P9A6X	\$ 378.34	\$ 260.00
4 Mbps	P9A1X	\$ 959.18	\$ 300.00
10 Mbps	P9A2X	\$1,065.75	\$ 300.00
16 Mbps	P9A3X	\$1,172.33	\$ 300.00
25 Mbps	P9A4X	\$1,278.90	\$ 300.00
34 Mbps	P9A5X	\$1,385.48	\$ 300.00

(B) Carrier Interface Port Connection  
- per port,

Month-to-Month			
1.17 Mbps IMG	P9R6X	\$ 378.34	\$ 260.00
34 Mbps IMG or ICI	P9R5X	\$1,811.78	\$ 300.00

\* Effective January 1, 2002, this service will no longer be available to new Customers. New subscriber network interfaces for existing XASMDS customers will not be available effective January 1, 2002. Existing XASMDS Customers are also limited to current in-place facilities effective January 1, 2002. Transfers to new service locations or upgrades to existing subscriber network interface access connections will not be available effective January 1, 2002. (N)

(Issued under Transmittal No. 131)

Issued: December 17, 2001

Effective: January 1, 2002

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2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.2 Exchange Access Switched Multi-Megabit Data \*

(C)

16.2.4 Rates and Charges (Cont'd)

**Effective December 16, 2000, this service will be provided by the Company only in the State of New Jersey. Provision of this service in all other states will be through Verizon Advanced Data, Inc.**

**Effective December 2, 2000, this service will no longer be provided in the states of Pennsylvania and Delaware by the Telephone Company but through Verizon Advanced Data, Inc.**

	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring</u>
(C) <u>Port Upgrade</u>			
SNI Port Connection	NRBSK	N/A	\$55.00
Carrier Interface Port Connection	NRBSL	N/A	40.00
(D) <u>Optional SNI Port Connection Features</u>			
Group Address	GPG	N/A	24.00
Each Additional Address	LG5AX	N/A	24.00
(E) <u>Administrative Change</u> - per request	NRBSM	N/A	25.00

\* Effective January 1, 2002, this service will no longer be available to new Customers. New subscriber network interfaces for existing XASMDS customers will not be available effective January 1, 2002. Existing XASMDS Customers are also limited to current in-place facilities effective January 1, 2002. Transfers to new service locations or upgrades to existing subscriber network interface access connections will not be available effective January 1, 2002.

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(Issued under Transmittal No. 131)

Issued: December 17, 2001

Effective: January 1, 2002

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service16.3.1 General

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

Exchange Access Frame Relay Service (XA-FRS) is a medium to high speed connection-oriented packet-switched data service that allows for the interconnection of Local Area Networks (LANs) or other compatible customer equipment across a wide area for the purpose of interstate access. XA-FRS allows for the transfer of variable length frames (packets). Frames are relayed by virtual connections although bandwidth is not dedicated to each virtual connection. (C)

This service uses Permanent Virtual Connections (PVCs). A PVC is a logical channel from one Frame Relay port to another Frame Relay port. When XA-FRS is used to access IP-VPN Service, a PVC is a logical channel from one Frame Relay port to the IP-VPN network. PVCs are end-to-end, bi-directional channels that are established and dis-established via the service order process.

The Frame Relay standard specifies an address field called the Data Link Connection Identifier (DLCI). The DLCI specifies a connection (e.g., customer premises to LEC switch or LEC switch to interexchange carrier network). A PVC is comprised of two or more DLCIs.

This service, comprised of two Interfaces, a User Network Interface (UNI) and a Network-to-Network Interface (NNI), allows XA-FRS compatible customer premises equipment (CPE) to originate or terminate interexchange services. All UNI access facilities must be in conformance with American National Standards Institute (ANSI) standards T1.606-1990, T1.606 Addendum 1-1991, T1.606a-1992, T1.617, Annex D-1992. All NNI access facilities must be in conformance with ANSI standards T1.606b-1993 and Telcordia Technical Reference TR-TSV061370, Issued: May 1993.

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(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service16.3.1 General

XA-FRS provides high-speed throughput over digital facilities at speeds of 56 kbps, 64 kbps, 128 kbps, 256 kbps, 384 kbps, 512 kbps, 768 kbps, 1.536 Mbps, 4 Mbps, 6 Mbps, 10 Mbps, 22 Mbps or 44.736 Mbps. Physical access to the Telephone Company Frame Relay network is provided via a UNI Port With Access Line Connection, a UNI Port Only Connection or a NNI Port Connection with a digital transmission facility. (T)  
(C)

UNI Port Only Connection also provides an XA-FRS Network connection to an appropriate CIS cross-connect within a wire center. Collocated Interconnection Service (CIS) Port Connection customers will continue to receive the same uninterrupted service under the Port Only Connection regulations set forth in 16.3.1(A)(2) following. (N)  
(N)  
(See Note below.)

A DS1 or a DS3 rated channel termination may be used as the NNI Port Connection transport link. Collocated Interconnection Services (CISs) as described in Section 19 following provide interoffice transport for NNI and UNI Port Only Connections. (C)  
(T)  
(C)

When available, DS1 transport must be equipped with both B8ZS capability and Extended Super Frame (ESF), and DS3 transport must be equipped with B3ZS. (Z)

XA-FRS is ordered through the access service order process. The Access Order Service Date Interval for XA-FRS is negotiated. See Section 5.

Note: See Section 19 following for additional information.

(Issued under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

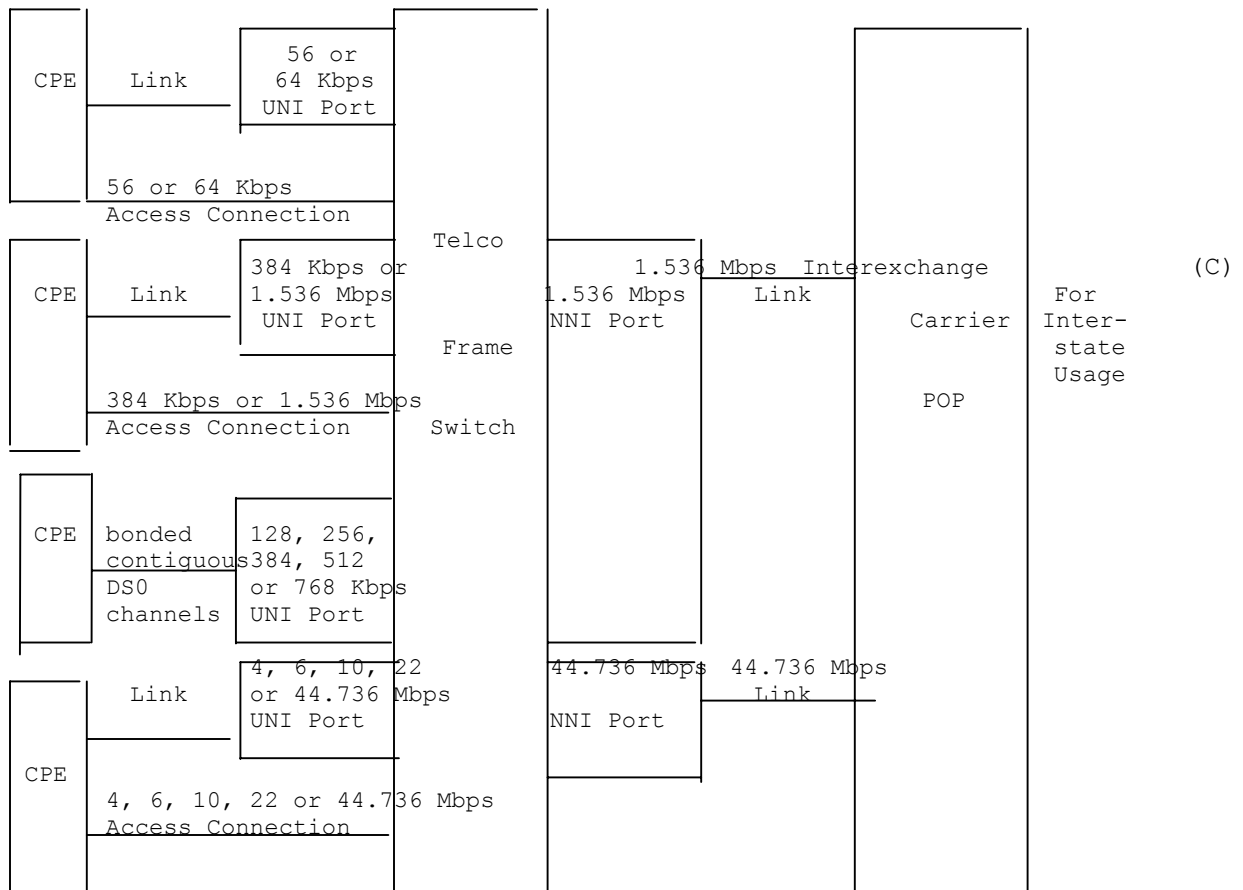


## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.1 General (Cont'd)

The following diagram depicts a generic view of the components of XA-FRS Service and the manner in which the components are combined to provide a complete XA-FRS connection.

## FRAME RELAY SERVICE



(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.1 General (Cont'd)(A) User Network Interface (UNI) Connections

The User Network Interface (UNI) is a standard interface used to connect the end user to the Telephone Company XA-FRS Network. It receives the data frame from the customer's Local Area Network or other CPE devices and verifies that the DLCI is valid before relaying the frame to the destination end point.

- (1) The UNI Port With Access Line Connection consists of a 56 Kbps, 64 Kbps, 384 Kbps, 1.536 Mbps, 4 Mbps, 6 Mbps, 10 Mbps, 22 Mbps or a 44.736 Mbps digital facility from the customer premises to the XA-FRS network and the appropriate port interface connection. UNI Port with Access Line Connection also includes the transport from a customer's serving wire center to a Frame Relay Switch, when required. The effective data rate of this line is 56 Kbps and 64 Kbps for narrowband connectivity and 384 Kbps, 1.536 Mbps, 4 Mbps, 6 Mbps, 10 Mbps, 22 Mbps, and 44.736 Mbps for wideband connectivity.
- (C)  
(C)  
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(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.1 General (Cont'd)(A) User Network Interface (UNI) Connections (Cont'd)

- (2) UNIs are also provisioned as a Port Only Connection. UNI Port Only Connection provides an XA-FRS Network connection based on the port connection speeds of 56 kbps, 64 kbps, 128 kbps, 256 kbps, 384 kbps, 512 kbps, 768 kbps, 1.536 Mbps, 4 Mbps, 6 Mbps, 10 Mbps, 22 Mbps and 44.736 Mbps. The channel speed of the access channel must be sufficient to accommodate the XA-FRS port speed. Each port can accommodate multiple PVCs. (C)

UNI Port Only Connections also provide an XA-FRS Network connection for a Collocated Interconnection Service (CIS) Cross-Connect Service or SPOT Bay Frame and Terminations service in a wire center. The respective CIS Cross-Connect service is described in Section 19. (See Note below.) (N)

UNI Port Only Connections do not include transport from a customer's serving wire center to a Frame Relay Switch. Such transport, when required, is the responsibility of the customer and must be ordered separately. Rates and charges for transport to the Frame Relay Switch apply in addition to UNI Port Only rates and charges. For UNI Port Only Connections ordered to provide an XA-FRS Network Connection from a Collocation Interconnection Service Cross Connect, associated transport must be ordered from Section 19 of this tariff, as applicable. (N)

Customers may access Port Only Connections via Telephone Company-provided digital access facilities or via facilities provided by another carrier. When access facilities are provided by the Telephone Company, the associated regulations, rates, and charges for the specific type of access service apply as specified in other sections of this Tariff from which the service is ordered. The access facilities rates and charges are in addition to the rates and charges for XA-FRS. Interconnection charges to connect access line services provided by the Telephone Company or another carrier may apply and will be billed separately. Any special construction or nonstandard charges assessed by the carrier supplying the access facilities will be the responsibility of the customer. (C)

- (3) Additional UNI Port With Access Line Connections and UNI Port Only Connections may be ordered under 16.3.1(D) following for disaster recovery of one or multiple UNI Port With Access Line Connections and UNI Port Only Connections and are referred to as Back-up UNIs. (C)

NOTE: See Section 19 for additional information. (N)

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.1 General (Cont'd)(B) Network-to-Network Interface (NNI) Port Connection

The Network-to-Network Interface (NNI) specifies how an XA-FRS switch sends and receives data from a Frame Relay interexchange carrier's or other customer's network.

The NNI Port Connection provides connection of a digital transmission facility, including 1.536 Mbps/DS1, 44.736 Mbps/DS3 and CIS Cross Connects, to the Telephone Company's XA-FRS Network.

(C)  
(T)

(D)

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(D)

NNI Port Only Connections include interoffice mileage from a customer's serving wire center to a Frame Relay Switch. Rates and charges for applicable Channel Terminations are as specified in other sections of this tariff, as applicable.

(N)

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|  
|(C) Committed Information Rate

The customer is required to specify a Committed Information Rate (CIR) per PVC at the rates set forth in 16.3.3(C) following. CIR provides the customer with a mechanism for prioritizing data on a per PVC basis across a given UNI. A CIR allows a sustained throughput at a chosen rate without having any frames designated "discard eligible" under normal operating conditions. Various CIR rates are available; however, 0 (zero) CIR is only available with 56 kbps ports provided under a Rate Stability Plan.

|  
|

(N)

(D) Optional UNI Features

(T)

Additional PVCs per UNI

This feature provides the assignment of additional Data Link Connection Identifiers (DLCIs). When any two DLCIs are mapped together, a PVC is created. Additional PVCs per UNI are subject to availability of facilities.

(C)  
(C)

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.1 General (Cont'd)(D) Optional UNI Features (Cont'd)

(T)

Group Addressing

Effective October 23, 2004, Group Addressing is no longer available to new customers. Moves, additions or changes to existing Group Addressing assignments will not be permitted. This feature allows a customer to send a single data unit across established PVCs to several intended recipients. The recipients are identified by an assignment of a group address used as the destination for the Frame Relay data unit. The DLCI assigned is now a group address.

(N)

|

(N)

Northern Corridor Option

The Northern Corridor Option provides UNI subscribers (UNI Port With Access Line Connection and UNI Port Only Connection subscribers) in the New Jersey - New York Corridor the ability to connect a PVC at a specified CIR between locations in Newark or Jersey City Wire Centers and New York, New York as specified in Section 14 preceding.

(T)

(C)

Southern Corridor Option

The Southern Corridor Option provides UNI subscribers (UNI Port With Access Line Connection and UNI Port Only Connection subscribers) in the New Jersey - Pennsylvania Corridor the ability to connect a PVC at a specified CIR between locations in the Delaware Valley New Jersey Wire Centers and Philadelphia, Pennsylvania Wire Centers as specified in Section 14 preceding.

(T)

(C)

Committed Information Rate (CIR) Optional Feature

(C)

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CIR is no longer available to new customers as an optional feature. Effective October 23, 2004, CIR is a chargeable basic component of XA-FRS as specified in 16.3.1(C) preceding.

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|

(C)

CIR is a feature that provides the customer with a mechanism for prioritizing data on a per PVC basis across a given UNI. A committed Information Rate allows a sustained throughput at a chosen rate without having any frames designated "discard eligible" under normal operating conditions. Various CIR rates are available; however, 0 (zero) CIR is only available with 56 and 64 Kbps ports.

(T)

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.1 General (Cont'd)(D) Optional UNI Features (Cont'd)

(T)

Back-up UNI

(N)

Back-up UNI service is a disaster avoidance and disaster recovery feature that consists of a Primary UNI and a Backup UNI and incorporates PVC remapping capabilities of the XA-FRS network. The Primary UNI is terminated at the primary customer host location and in normal operation services PVCs between the primary host location and various customer remote locations. A second UNI, which is designated by the customer as a Backup UNI, is installed and terminated at the customer's backup host location. During normal operations, no PVCs are mapped to the Backup UNI. The customer is required to purchase both UNIs.

A customer ordering Backup UNI service is responsible for the following:

- Determining network configuration before and after activation of Backup UNI service.
- Providing the Telephone Company with the appropriate information required for joint development of the Backup UNI database.
- Maintaining its own port configurations and router tables (for seamless changes from the Primary UNI to the Backup UNI, the customer must use the same addressing scheme on routers connected to the primary and backup sites)

A Backup UNI, which may serve as a backup to one or more Primary UNIs, can only back up one Primary UNI at a time. A Backup UNI must be the same port speed or greater than the Primary UNI(s).

In the event of failure of a Primary UNI, digital access line or host location, the customer must contact the Telephone Company to request that the Primary UNI be remapped to the Backup UNI.

Upon restoral of the Primary UNI service, the customer must contact the Telephone Company to request that the Backup UNI be remapped back to the Primary UNI.

A nonrecurring charge applies, per Backup UNI, per occurrence, when a customer requests an activation of the Backup UNI service.

There is no charge for deactivation of Backup UNI service.

(N)

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.1 General (Cont'd)(E) Customer Service Management

(T)

Customer Service Management (CSM) is a value-added optional feature that provides Customers with web-based reports. These reports give the Customer the ability to extract "read-only" network traffic information regarding their networks thereby allowing Customers to monitor and manage their network performance. CSM is both billed and built per Customer Division. A Customer Division is a group of access connections and Permanent Virtual Circuits (PVCs) designated by the Customer. A Customer Division may include no more than 500 access connections and 1,000 PVCs.

(M)

CSM will be provided where conditions and facilities permit.

The Company reserves the right to temporarily interrupt CSM for maintenance, software upgrades, and in emergency situations.

A Monthly Recurring Charge and a Nonrecurring Charge apply for each CSM arrangement. The customer will be charged on a per Customer Division basis.

(M)

(F) Maintenance Window

(T)

Network maintenance and network upgrades for XA-FRS are performed during the hours of 11:00 p.m. and 8:00 a.m. At times, during the hours of maintenance activity, it will be necessary to place a customer's service in an inactive (out of service) condition. The amount of time that this scheduled out of service condition will exist is called a "maintenance window". The Company will provide the customer notice prior to the maintenance window. Maintenance window activity could be scheduled for consecutive days.

(M)

(M)

Certain material on this page formerly appeared on 1<sup>st</sup> Revised Page 16-40 and Original Page 16-40.1.

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(Issued under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.2 Rate Regulations(A) Administrative Charge

An administrative charge will be applied whenever a change is made to a customer's Frame Relay configuration at the customer's request. Such changes are defined as those rearrangements necessary to add, delete, or rearrange the customer's configuration, including changes to a customer's selected carrier. Although multiple changes may be caused by such actions, only one administrative charge will apply.

(C)

The administrative charge also applies for customer-requested changes to the bandwidth capacity of existing circuits (e.g., 384 Kbps to 1.536 Mbps, or 4 Mbps to 10 Mbps). However, if the customer upgrades between service levels (e.g., 384 Kbps to 4 Mbps) or downgrades between service levels (e.g., 10 Mbps to 1.536 Mbps), the nonrecurring service charge associated with the new service level applies.

The administrative charge applies per occurrence, per UNI Port With Access Line Connection, UNI Port Only Connection or NNI Port Only Connection.

(C)

(C)

(B) Term Pricing Plans

Extended commitment periods of one, three and five year Term Pricing Plans (TPPs) are available for UNI Port With Access Line Connections and UNI Port Only Connections.

(C)

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(C)

Customers may add UNI Port With Access Line Connections or UNI Port Only Connections to an existing TPP within the initial 12 months. Otherwise, additional UNI Port With Access Line Connections or UNI Port Only Connections will be in a separate and new term pricing plan.

Prior to the end of the term commitment period, the customer may select one of the following options, to be effective at the end of the term:

(N)

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(N)

1. Renew for the same commitment period;
2. Commit to a new term of shorter or longer duration;
3. Arrange for a change of service; or
4. Discontinue service.

Certain material previously found on this page can now be found on 3rd Revised Page 16-41.1.

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)  
 16.3 Exchange Access Frame Relay Service (Cont'd)  
 16.3.2 Rate Regulations (Cont'd)  
 (B) Term Pricing Plans (Cont'd)

The following regulation applies to customers who enter into TPPs on or after October 23, 2004. In the event the customer does not select one of the above options, the customer will be converted to the shortest term period available under tariff (i.e., month-to-month, one year, etc.) for the same service, and will be subject to the applicable term commitment, if any, unless the customer terminates the service within sixty (60) days of the conversion date. (N)

The following regulation applies to customers who entered into TPPs prior to October 23, 2004. Upon expiration of a TPP, the prevailing rates will apply. (N)  
(C)  
(M)

(C) Termination Charges: Month-to-Month and TPPs

Each 56 Kbps, 64 Kbps, 384 Kbps, 1.536 Mbps, and 44.736 Mbps UNI Port With Access Line Connection provided on a month-to-month basis or on a Term Pricing Plan (1, 3 or 5 years) is subject to a minimum service period of one month. (T)  
(T)  
(C)

Each 4 Mbps, 6 Mbps, 10 Mbps and 22 Mbps UNI Port With Access Line Connection provided on a month-to-month basis is subject to a minimum service period of three months.

Each 4 Mbps, 6 Mbps, 10 Mbps and 22 Mbps UNI Port With Access Line Connection provided on a TPP (1, 3, or 5 years) is subject to a minimum service period of 12 months.

Each 56 kbps, 64 kbps, 128 kbps, 256 kbps, 384 kbps, 512 kbps, 768 kbps, 1.536 Mbps and 44.736 Mbps UNI Port Only Connection provided on either a month-to-month basis or under a Term Pricing Plan is subject to a minimum period of one month. (C)  
(C)

Each 4 Mbps, 6 Mbps, 10 Mbps and 22 Mbps UNI Port Only Connection provided on a month-to-month basis is subject to a minimum period of three months.

Each NNI Port Only Connection provided on a month-to-month basis is subject to a minimum period of one month. (T)  
(T)

Term Pricing Plans are subject to early termination liability. In the event that service is disconnected in full or in part prior to completion of the term, the customer shall be liable for an early termination charge, except as noted following. (C)  
(C)

Certain material previously found on this page can now be found on Original Page 16-41.2.

Certain material on this page formerly appeared on 4<sup>th</sup> Revised Page 16-41.

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.2 Rate Regulations (Cont'd)(C) Termination Charges: Month-to-Month and TPPs (Cont'd)

For customers who enter into TPPs on or after October 23, 2004, the amount of the early termination charge will be 25% of the monthly recurring charge(s) (MRC) for the remainder of the term. For example: (N)

$25\% \times \text{MRC} \times \# \text{ of Port Only/Port With Access Line Connections} \times \text{Remainder of Term} = \text{Termination Charge}$

For customers who entered into TPPs prior to October 23, 2004, the amount of the early termination charge will be the lessor of: (N)

(1) an amount equal to the difference between the Month-to-Month monthly rate and the monthly rate for the selected term plan times the number of months or fraction thereof that the service was in effect; (M)

or (M)

(2) 25% of the monthly rate for the selected TPP times the number of months or fraction thereof remaining in the term. (R)  
(M)  
(M)

Certain material on this page formerly appeared on 2<sup>nd</sup> Revised Page 16-41 and 2nd Revised Page 16-41.1.

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service16.3.2 Rate Regulations (Cont'd)(C) Termination Charges: Month-to-Month and TPPs (Cont'd)

In addition, if a UNI Port With Access Line Connection is disconnected within the first 36 months, the customer is liable for the full installation charge associated with the Month-to-Month Plan. (C)

For customers who enter into TPPs on or after October 23, 2004, early termination charges will apply only to those rate elements under a term commitment plan. If any rates for the service are increased during the term period, exclusive of any increase due to local, state or federal fees, taxes or surcharges, the customer may terminate the service without incurring an early termination charge. (N)

For customers who entered into TPPs prior to October 23, 2004, if rates increase during the plan period, the customer may discontinue service without termination liability within 120 days of the rate increase. If the service is continued after the 120 days, all current plan terms and conditions apply, including termination liability. (C)

Early termination charges will not be assessed under the following circumstances: (C)

Certain material previously found on this page can now be found on Original Pages 16-42.1 and 16-42.2.

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

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## ACCESS SERVICE

## 16. Packet Data Services (Cont'd)

### 16.3 Exchange Access Frame Relay Service

### 16.3.2 Rate Regulations (Cont'd)

(C) Termination Charges: Month-to-Month and TPPs (Cont'd)

Customer moves existing service either to a new location within the same address and/or same building (inside move) or to a new location (outside move) and maintains that service for the remainder of the term;

Customer converts to a new term commitment plan for the same service before the current term commitment expires and the value of the new term commitment is equal to or greater than the remaining value of the current term commitment; or

Customer changes to another service eor upgrades service to a higher speed or capacity under a term agreement, provided the following conditions are met:

1. The value of the new term commitment is equal to or greater than the remaining value of the current term commitment;
2. Both the existing and the new services are provided solely by the Telephone Company; and
3. The order to discontinue the existing service and the order for the new or upgraded service are received by the Telephone Company at the same time.

Certain material on this page formerly appeared on 1<sup>st</sup> Revised Page 16-42.

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service16.3.2 Rate Regulations (Cont'd)(D) Nonrecurring Charges

(M)

A nonrecurring charge applies for each installation of certain XA-FRS rate elements. This charge also applies whenever the facility associated with the rate element is moved, changed or rearranged. The charge is not applicable when a customer converts from one term plan to another and there is no physical change in the service facility.

(M)

Certain material on this page formerly appeared on 1st Revised Page 16-42.

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.2 Rate Regulations (Cont'd)(D)  
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|  
(D)(E) Rate Stability Plans

This Exchange Access Frame Relay Service Rate Stability Plan (XA-FRS RSP) allows customers to stabilize their 56 Kbps UNI Port With Access Line Connection recurring and nonrecurring rates for an extended period of three or five years. For Rate Stability Plan customers of record prior to October 23, 2004, a CIR feature is included in the RSP UNI Port With Access Line Connection rate as an option at speeds of 0, 8, 16 and/or 28 Kbps. Effective October 23, 2004, the CIR feature is a required component included in the RSP UNI Port with Access Line Connection rate at speeds of 0, 8, 16 and/or 28 Kbps.

(C)  
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(C)

An RSP customer is guaranteed not to experience a rate increase during the term of the 3 or 5-year RSP. The XA-FRS RSP is available to any customer who meets the minimum service requirements and agrees to the plan's terms and conditions.

(T)

The minimum service requirements are:

- A commitment of a minimum of 500 56 Kbps UNI Port With Access Line Connections.
- Installation of at least 500 UNI Port With Access Line Connections within one year of the initial order or contract date.

The terms and conditions are:

- The nonrecurring and recurring rates will remain stable during the plan period.
- New 56 Kbps UNI Port With Access Line Connections may be added to the plan subject to the plan's rate, expiration date, and terms and conditions.
- Optional features of XA-FRS (excluding 0, 8, 16, and 28 Kbps CIR for customers of record prior to October 23, 2004) are not a part of the plan but are available at standard rates.

(C)  
(C)

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.2 Rate Regulations (Cont'd)(E) Rate Stability Plans (Cont'd)

- In the first year, customers will be billed for UNI Port With Access Line Connections as they are installed. After the initial 12 months of the RSP, customers are billed for the minimum commitment level and for each UNI Port With Access Line Connection that exceeds 500.
- There is no minimum revenue guarantee or termination liability for any UNI Port With Access Line Connections in excess of the 500 minimum commitment level. CIR is not subject to termination liability. (C)
- After the first year of the plan, customers are eligible for limited portability, i.e., the replacement of a UNI Port With Access Line Connection in the plan that is being disconnected with another 56 Kbps UNI Port With Access Line Connection for the balance of the RSP. Portability requirements are:
  - The replacement service can not already be in any Telephone Company term plan.
  - The orders to disconnect the existing service and connect the replacement must be received at the same time, with due dates within 90 days of each other, and related by a Related Purchase Order Number (RPON).
  - No more than 30 percent of the plan's access connections in place on the first year's anniversary date and each succeeding anniversary date are eligible for portability over the next 12 months. When more than 30 percent of the access connections in the plan are replaced in the same contract year (from last anniversary date to the next), all access connections in the plan will be billed at the Month-to-Month rate for the remainder of that contract year.
  - The replacement service is subject to any applicable nonrecurring charges.
- Existing 56 Kbps UNI Port With Access Line Connections can be converted to a RSP service without additional charge as long as there is no change in the physical facility.

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(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.2 Rate Regulations (Cont'd)(E) Rate Stability Plans (Cont'd)

- If at any time during the plan period, the customer disconnects all plan services or the plan in its entirety, the customer will be subject to termination liability. Termination liability will be the lesser amount of the two calculations following:
  - The sum of the monthly rates for 500 UNI Port With Access Line Connections for the remainder of the RSP period.
  - An amount equal to the difference between the monthly rate for basic Month-to-Month service and the selected RSP monthly rate times each UNI Port With Access Line Connection disconnected times the number of months the plan was in service.

(F) Northern and Southern Corridor Options

The Northern Corridor Option is available on a Month-to-Month basis or may be included in the one-year, three-year or five-year term plan of the underlying UNI.

(C)  
|  
(C)

The Southern Corridor Option is available to customers at no charge.

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(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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ACCESS SERVICE

16. Packet Data Services (Cont'd)  
16.3 Exchange Access Frame Relay Service (Cont'd)  
16.3.2 Rate Regulations (Cont'd)

(D)

(D)

(Issued under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.3 Rates and Charges

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

		<u>USOC</u>	<u>Monthly Charge</u>	<u>Nonrecurring Charge</u>	
(A) <u>UNI Connections</u>					
(1) <u>UNI Port With Access Line Connection</u>					
56 Kbps					
Month-to-Month	NLZ5X	\$ 186.51		\$ 875.00	
One Year TPP	NLZ51	175.00	(N)	N/A	(N)
Three Year TPP	NLZ53	170.52	(M)	N/A	(C)
Five Year TPP	NLZ55	159.86	(M)	N/A	(C)
64 Kbps					
Month-to-Month	NLZYX	186.51		875.00	
One Year TPP	NLZY1	175.00	(N)	N/A	(N)
Three Year TPP	NLZY3	170.52	(M)	N/A	(C)
Five Year TPP	NLZY5	159.86	(M)	N/A	(C)
384 Kbps					
Month-to-Month	NLZ6X	367.00		1,000.00	
One Year TPP	NLZ61	351.50	(N)	N/A	(N)
Three Year TPP	NLZ63	336.00	(M)	N/A	(C)
Five Year TPP	NLZ65	325.00	(M)	N/A	(C)
1.536 Mbps					
Month-to-Month	NLZ8X	463.60		1,000.00	
One Year TPP	NLZ81	445.00	(N)	N/A	(N)
Three Year TPP	NLZ83	426.30	(M)	N/A	(C)
Five Year TPP	NLZ85	404.99	(M)	N/A	(C)
4 Mbps					
Month-to-Month	NLXQX	3,000.00		1,500.00	(T)
One Year TPP	NLXQ1	2,850.00	(M)	N/A	(C)
Three Year TPP	NLXQ3	2,451.23	(M)	N/A	(C)
Five Year TPP	NLXQ5	2,238.08	(M)	N/A	(C)
6 Mbps					
Month-to-Month	NLXRX	3,450.00		1,500.00	(T)
One Year TPP	NLXR1	3,275.00	(M)	N/A	(C)
Three Year TPP	NLXR3	2,770.95	(M)	N/A	(C)
Five Year TPP	NLXR5	2,557.80	(M)	N/A	(C)

Certain material on this page formerly appeared on 3<sup>rd</sup> Revised Page 16-48.  
Certain material previously found on this page can now be found on Original  
Page 16-46.2.

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.3 Rates and Charges (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

		USOC	Monthly Charge	Nonrecurring Charge	
(1)	UNI Port With Access Line Connection				
	10 Mbps				
	Month-to-Month	NLXXX	3,700.00 (M)	\$1,500.00	(T)
	One Year TPP	NLXX1	3,500.00 (M)	N/A	(C)
	Three Year TPP	NLXX3	2,900.00 (M)	N/A	(C)
	Five Year TPP	NLXX5	2,750.00 (M)	N/A	(C)
	22 Mbps				
	Month-to-Month	NLXSX	4,000.00 (M)	1,500.00	(T)
	One Year TPP	NLXS1	3,800.00 (M)	N/A	(C)
	Three Year TPP	NLXS3	3,197.25 (M)	N/A	(C)
	Five Year TPP	NLXS5	2,984.10 (M)	N/A	(C)
	44.736 Mbps				
	Month-to-Month	NLXTX	4,500.00 (N)	1,500.00	(N)
	One Year TPP	NLXT1	4,300.00 (N)	N/A	(N)
	Three Year TPP	NLXT3	4,049.85 (M)	N/A	(C)
	Five Year TPP	NLXT5	3,836.70 (M)	N/A	(C)

Certain material on this page formerly appeared on 5<sup>th</sup> Revised Page 16-46 and 3<sup>rd</sup> Revised Page 16-48. Certain material previously found on this page can now be found on Original Page 16-46.6.

(Issued under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)  
16.3 Exchange Access Frame Relay Service (Cont'd)  
16.3.3 Rates and Charges (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

	USOC	Monthly Charge	Nonrecurring Charge	
(2) <u>UNI Port Only Connection</u>				
56 Kbps				(N)
Month-to-Month	FPUFX	\$ 80.00	\$300.00	
One Year TPP	FPUF1	70.00	N/A	
Three Year TPP	FPUF3	60.00	N/A	
Five Year TPP	FPUF5	50.00	N/A	
64 Kbps				
Month-to-Month	FPUAX	80.00	300.00	
One Year TPP	FPUA1	70.00	N/A	
Three Year TPP	FPUA3	60.00	N/A	
Five Year TPP	FPUA5	50.00	N/A	(N)
128 Kbps				(M)
Month-to-Month	FPUBX	157.33	300.00	(T)
One Year TPP	FPUB1	100.00	N/A	
Three Year TPP	FPUB3	92.00	N/A	
Five Year TPP	FPUB5	83.00	N/A	(T)
256 kbps				(M)
Month-to-Month	FPUKX	165.00	300.00	(T)
One Year TPP	FPUK1	138.00	N/A	
Three Year TPP	FPUK3	105.00	N/A	
Five Year TPP	FPUK5	95.00	N/A	(T)
384 Kbps				(M)
Month-to-Month	FPUCX	170.00	300.00	(T)
One Year TPP	FPUC1	150.00	N/A	
Three Year TPP	FPUC3	125.00	N/A	
Five Year TPP	FPUC5	110.00	N/A	(T)
512 kbps				(M)
Month-to-Month	FPULX	185.00	300.00	(T)
One Year TPP	FPUL1	167.00	N/A	
Three Year TPP	FPUL3	146.00	N/A	
Five Year TPP	FPUL5	124.00	N/A	(T)
768 kbps				(M)
Month-to-Month	FPUDX	200.00	300.00	(T)
One Year TPP	FPUD1	175.00	N/A	
Three Year TPP	FPUD3	155.00	N/A	
Five Year TPP	FPUD5	135.00	N/A	(T)
1.536 Mbps				(N)
Month-to-Month	FPUEX	220.00	300.00	
One Year Term	FPUE1	195.00	N/A	
Three Year Term	FPUE3	165.00	N/A	
Five Year Term	FPUE5	145.00	N/A	(N)

Certain material on this page formerly appeared on 5<sup>th</sup> Revised Page 16-46 and 3<sup>rd</sup> Revised Page 16-48.

(Issued under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.3 Rates and Charges (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

		USOC	Monthly Charge	Nonrecurring Charge	
(2)	<u>UNI Port Only Connection</u> (Cont'd)				
	4 Mbps				
	Month-to-Month	FPU4X	\$ 790.00 (M)	\$ 300.00	(T)
	One Year Term	FPU41	770.00 (M)	N/A	(C)
	Three Year Term	FPU43	675.00 (M)	N/A	(C)
	Five Year Term	FPU45	620.00 (M)	N/A	(C)
	6 Mbps				
	Month-to-Month	FPU5X	830.00 (M)	300.00	(T)
	One Year Term	FPU51	810.00 (M)	N/A	(C)
	Three Year Term	FPU53	700.00 (M)	N/A	(C)
	Five Year Term	FPU55	660.00 (M)	N/A	(C)
	10 Mbps				
	Month-to-Month	FPU6X	900.00 (M)	300.00	(T)
	One Year Term	FPU61	870.00 (M)	N/A	(C)
	Three Year Term	FPU63	760.00 (M)	N/A	(C)
	Five Year Term	FPU65	700.00 (M)	N/A	(C)
	22 Mbps				
	Month-to-Month	FPU7X	1,200.00 (M)	300.00	(T)
	One Year Term	FPU71	1,160.00 (M)	N/A	(C)
	Three Year Term	FPU73	1,010.00 (M)	N/A	(C)
	Five Year Term	FPU75	970.00 (M)	N/A	(C)
	44.736 Mbps				(N)
	Month-to-Month	FPUOX	1,500.00 (N)	300.00	
	One Year Term	FPU01	1,350.00 (N)	N/A	
	Three Year Term	FPU03	1,125.00 (N)	N/A	
	Five Year Term	FPU05	1,050.00 (N)	N/A	(N)

Certain material on this page formerly appeared on 5<sup>th</sup> Revised Page 16-46 and 3<sup>rd</sup> Revised Page 16-48.

(Issued under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.3 Rates and Charges (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

	<u>USOC</u>	<u>Monthly Charge</u>	<u>Nonrecurring Charge</u>	
(B) <u>NNI Port Connection</u>				(D)
1.536 Mbps	NNL8X	234.47	300.00	(D)
44.736 Mbps	NNL9X	2,877.53	300.00	(I)
				(T)

Certain material on this page formerly appeared on 5<sup>th</sup> Revised Page 16-46 and 3<sup>rd</sup> Revised Page 16-48.

(Issued under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.3 Rates and Charges (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(C) <u>Committed Information Rates</u>	<u>USOC</u>	<u>Monthly Charge</u>	<u>Nonrecurring Charge</u>	
0/8/16/28/32 Kbps	R3TG2	\$ 5.00	\$12.00	*
56/64 Kbps	R3TA1	2.00	12.00	**
0 Kbps	R3TVX	1.00	N/A	(N)
4 Kbps	R3TYX	1.00	N/A	
8 Kbps	R3TZX	1.00	N/A	
16 Kbps	R3TOX	1.00	N/A	
28 Kbps	R3TPX	2.00	N/A	
32 Kbps	R3TTX	2.00	N/A	
42 Kbps	R3XZX	2.00	N/A	
48 Kbps	R3X1X	2.00	N/A	
64 Kbps	R3TQX	3.00	N/A	
96 Kbps	R3X2X	4.00	N/A	(N)
128 Kbps	R3TB1	5.00 (I)	N/A	(R)
192 Kbps	R3TC1	7.00	N/A	(C)
256 Kbps	R3TD1	9.00	N/A	(C)
288 Kbps	R3X3X	10.00	N/A	(N)
384 Kbps	R3TE1	12.00	N/A	(C)
512 Kbps	R3TF1	25.00	N/A	(C)
576 Kbps	R3X4X	26.00	N/A	(N)
768 Kbps	R3TH1	28.00	N/A	(C)
1.152 Mbps	R3X5X	36.00	N/A	(N)

\* Effective October 23, 2004, this rate element is no longer applicable to new customers. (N)

\*\* Effective October 23, 2004, this rate element is no longer applicable to new customers. The Telephone Company will continue to provide this rate element to existing customers until February 20, 2005. Customers will be required to migrate to one of the new required CIR speeds by one of the following methods:

1. Customer may request a new CIR from among the speeds available at the then effective rates set forth herein; or
2. Customer may take no action, and effective February 20, 2005, the customer will automatically be assigned to the new required CIR speed of 64 kbps; or
3. Customer may discontinue service at any time prior to February 20, 2005.

(N)

(Issued under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.3 Rates and Charges (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(C) <u>Committed Information Rates</u>		<u>USOC</u>	<u>Monthly Charge</u>	<u>Nonrecurring Charge</u>	
		(Cont'd)			
1.536 Mbps		R3XW3	\$46.00	N/A	(C)
2 Mbps		R3TW1	50.00	N/A	
3 Mbps		R3XB3	75.00	N/A	
4 Mbps		R3XC3	100.00	N/A	
5 Mbps		R3XD3	125.00	N/A	
6 Mbps		R3XE3	150.00	N/A	
7 Mbps		R3XF3	175.00	N/A	
8 Mbps		R3XG3	200.00	N/A	
9 Mbps		R3XH3	225.00	N/A	
10 Mbps		R3XJ3	250.00	N/A	
11 Mbps		R3XK3	275.00	N/A	
12 Mbps		R3XL3	300.00	N/A	
13 Mbps		R3XM3	325.00	N/A	
14 Mbps		R3XN3	350.00	N/A	
15 Mbps		R3XO3	375.00	N/A	
16 Mbps		R3XP3	400.00	N/A	
17 Mbps		R3XQ3	425.00	N/A	
18 Mbps		R3XR3	450.00	N/A	
19 Mbps		R3XS3	475.00	N/A	
20 Mbps		R3XT3	500.00	N/A	
21 Mbps		R3XU3	525.00	N/A	
22 Mbps		R3XV3	550.00	N/A	(C)

Certain material on this page formerly appeared on 1st Revised Page 16-46.1.

(Issued under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.3 Rates and Charges (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

	<u>USOC</u>	<u>Monthly Charge</u>	<u>Nonrecurring Charge</u>	
(D) <u>Administrative Charge</u>	NRBFR	\$ 0.00	\$ 50.00	(M)
(E) <u>Optional UNI Features</u>				(T)
(1) Each Additional PVC	L7NAX	N/A	0.00	(R)
(2) Group Address*	G4A	N/A	35.00	(C)
(3) Committed Information Rates*	Refer to the rates and charges set forth in 16.3.3(C) preceding.			(C)
(4) Backup UNI, per activation	NHC9K	N/A	200.00	(N) (N)

\* Effective October 23, 2004, this rate element is no longer available to new customers. (N)  
(N)

Certain material previously found on this page can now be found on 4th Revised Page 16-48.

(Issued under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.3 Rates and Charges (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

		USOC	Monthly Charge	Nonrecurring Charge	
(E)	<u>Optional UNI Features</u>	(Cont'd)			(M)
	(5)	<u>Northern Corridor Option</u>			(M)
		<u>At 16 Kbps CIR</u>			
		Mo-to-Mo	NLCOM \$ 0.00 (R)	\$ 0.00	(R)
		1-year	NLCO1 (T) 0.00 (R)	0.00	
		3-year	NLCO3 0.00 (R)	0.00	
		5-year	NLCO5 0.00 (R)	0.00	(R)
		<u>At 28 or 32 Kbps CIR</u>			(M)
		Mo-to-Mo	NLCPM 0.00 (R)	0.00	(R)
		1-year	NLCP1 (T) 0.00 (R)	0.00	
		3-year	NLCP3 0.00 (R)	0.00	
		5-year	NLCP5 0.00 (R)	0.00	(R)
		<u>At 56* or 64 Kbps CIR</u>			(C)
		Mo-to-Mo	NLCAM 0.00 (R)	0.00	(R)
		1-year	NLCA1 (T) 0.00 (R)	0.00	
		3-year	NLCA3 0.00 (R)	0.00	
		5-year	NLCA5 0.00 (R)	0.00	(R)
		<u>At 128 or 192 Kbps CIR</u>			(M)
		Mo-to-Mo	NLCLM 0.00 (R)	0.00	(R)
		1-year	NLCL1 (T) 0.00 (R)	0.00	
		3-year	NLCL3 0.00 (R)	0.00	
		5-year	NLCL5 0.00 (R)	0.00	(R)
		<u>At 256 or 384 Kbps CIR</u>			(M)
		Mo-to-Mo	NLCRM 0.00 (R)	0.00	(R)
		1-year	NLCR1 (T) 0.00 (R)	0.00	
		3-year	NLCR3 0.00 (R)	0.00	
		5-year	NLCR5 0.00 (R)	0.00	(R)
		<u>At 512 or 768 Kbps CIR</u>			(M)
		Mo-to-Mo	NLCMM 0.00 (R)	0.00	(R)
		1-year	NLCM1 (T) 0.00 (R)	0.00	
		3-year	NLCM3 0.00 (R)	0.00	
		5-year	NLCM5 0.00 (R)	0.00	(R)
(F)	Customer Service Management				(T)
	Per Customer Division	NM6XX	150.00	350.00	(T)

\* Refer to 16.3.3(C) for 56 Kbps availability.

Material on this page formerly appeared on 2<sup>nd</sup> Revised Page 16-47.

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

16. Packet Data Services (Cont'd)

16.3 Exchange Access Frame Relay Service (Cont'd)

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(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.3 Exchange Access Frame Relay Service (Cont'd)16.3.3 Rates and Charges (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

	<u>USOC</u>	<u>Monthly Charge</u>	<u>Nonrecurring Charge</u>	
(F)	<u>UNI Port With Access Line Connection</u>			(T)
	<u>56 Kbps Rate Stability Plans</u>			
	3-Year RSP	NLZ5T	131.40	\$2.00
	5-Year RSP	NLZ5R	116.80	2.00

Certain material previously found on this page can now be found on Original Pages 16-46.2 and 16-46.3.

(This page filed under Transmittal No. 499)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.4 Full Fiber Distributed Data Interface

The Telephone Company's Full Fiber Distributed Data Interface Service (Full FDDI) is a high-speed data service that connects customers' Local and Wide Area Networks (LANs and WANs).

Effective November 3, 2000, Full FDDI is no longer available to new subscribers.

16.4.1 Service Description

Full FDDI is a dedicated high-speed data network that consists of network interface equipment at each customer designated location and dedicated fiber optic facilities. These facilities are constructed as dual counter-rotating rings of fiber to guarantee fault tolerance on the fibers. Additional equipment may be placed in serving wire centers.

Full FDDI is provided on single mode fiber optic facilities at a digital speed of 100 Mbps in conformance with American National Standards Institute (ANSI) standards for FDDI.

Full FDDI is custom designed to meet each customer's specific needs and is available where fiber optic facilities exist.

Full FDDI is available in commitment periods of 3, 5, and 10-year terms.

16.4.2 Technical Specifications

Technical specifications for this service are described in the following technical publications:

ANSI X3.184-1993, ANSI X3.148, ANSI X3.139, and ANSI X3.229.

The compatible network channel interface (NCI) and network channel code (NC) are NC: HM and NCI: 02FCF10.

16.4.3 Definitions

Dual-attached Node: This node is required when customers connect to Full FDDI using four fibers. Each dual-attached node has a maximum of one port. This connection is used 1) between two rings when two rings are required because the distance between the customer's locations exceed the distance limitations of one ring (approximately 100 Km), or 2) when connecting interLATA FDDI networks. Dual-attached nodes are generally used for connecting WANs.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.4 Full Fiber Distributed Data Interface (Cont'd)16.4.3 Definitions (Cont'd)

Fiber Distributed Data Interface (FDDI): An American National Standards Institute standard for data transmission over fiber optic facilities at speeds up to 100 Mbps that provides connectivity for computers, Local Area Networks and Wide Area Networks.

Interoffice Mileage: A Full FDDI rate element that assesses a charge per mile for ring mileage between serving wire centers.

Local Area Network (LAN): A short distance data communications network (typically within a building or campus) used to link together computers and other electronic communication devices.

Node: A network interface device that enables customer access to the network using either multimode or single mode fibers. A customer location may have more than one node. There are two types of nodes, single-attached and dual attached.

Port: The connection at the node of a customer's communications device that is capable of transmitting or receiving information.

Single-attached Node: The customer's equipment is connected to the node using two fibers. This node is used to connect LANs. Each single-attached node has a maximum of six ports.

Wide Area Network (WAN): A data communications network that covers an extended geographical area. This network usually connects disperse sites in possibly remote cities.

16.4.4 Terms and Conditions

The customer designates the premises and networks to be connected. The customer also designates the number of nodes per premises.

The Company determines network design, e.g., the number of dedicated rings needed, the need for repeaters in the Central Offices, and when dual-attached nodes are required.

- repeaters are normally required when the distance between nodes exceed 20dB loss.
- the number of nodes on a ring and the expanse of the geographic area covered determine the need for a multi-ring network.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.4 Full Fiber Distributed Data Interface (Cont'd)16.4.4 Terms and Conditions (Cont'd)

Full FDDI service is operational 24 hours-a-day 7 days-a-week. Routine preventive maintenance and system upgrades will be performed at specific times negotiated with the customer and do not qualify for credit allowances for service outages.

Full FDDI is provided on a negotiated service date interval.

Ports are activated when customer equipment is connected.

Nodes and repeaters may only be added to the network in the first year of a term plan. If the customer wishes to add nodes or repeaters after the first year, the customer must initiate a new term plan.

Moves or relocation of a node will be treated as a disconnect and the establishment of a new node.

16.4.5 Rate Regulations

Applicable rate elements with monthly recurring rates are node, repeater, and interoffice mileage.

Nonrecurring charges apply for the initial installation of the network on a per node basis. They also apply for subsequent additions of a single-attached node and for subsequent port activations.

All rate elements included in this network service are rated under the same commitment period and have the same expiration date regardless of subsequent installation dates that may occur in the first year.

If recurring rates increase during the term plan, the customer may discontinue service without liability.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.4 Full Fiber Distributed Data Interface (Cont'd)16.4.5 Rate Regulations (Cont'd)

When the customer's term period expires, prevailing rates for the expired term plan will continue to apply.

Termination liability applies when a port, a node, or interoffice mileage is disconnected prior to the end of the selected commitment period. Liability is assessed as follows:

3-year Term: The customer is responsible for 100% of the monthly rates for the remainder of the period.

5-year Term: The customer is responsible for the difference between the monthly rates for 36 months at the 3-year term rates and the actual number of months the plan has been in effect multiplied by the 5-year monthly rates.

10-year Term: The customer is responsible for the difference between the monthly rates for 60 months at the 5-year term rates and the actual number of months the plan has been in effect multiplied by the 10-year rates.

Termination liability is waived if the network is converted to a term plan of equal or greater value in revenue than the remainder of the present plan.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.4 Full Fiber Distributed Data Interface (Cont'd)16.4.6 Prepayment Option

A customer may at any time elect to prepay the monthly charges for the remainder of the commitment period or to prepay only the next 12 months of remaining monthly charges. Customer selection is written notice either at the time of request for new service or thirty days prior to the desired prepayment date for existing service. Customers who choose to prepay annually must notify the Company 30 days prior to the end of the current prepayment period of their selection to prepay for the upcoming 12 month period.

The prepayment amount will be determined using the monthly rate in effect at the time the prepayment option is selected, adjusted by the prime lending rate (the current prime interest rate as published in the Wall Street Journal) in effect when the customer selects the prepayment option. No adjustments will be made for Company initiated rate changes which may occur subsequent to the customer's election to prepay.

Whenever a term plan with the prepayment option is discontinued prior to the end of the prepayment period, a credit for the unused portion of the monthly charges already paid will apply. The credit will include an adjustment for the prime lending rate in effect when the prepayment was calculated offset by any applicable termination liability.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.4 Full Fiber Distributed Data Interface (Cont'd)16.4.7 Rates and Charges (Effective November 3, 2000, these services are not available to new subscribers)

<u>Rate Element</u>	<u>USOC</u>	<u>Recurring</u>	<u>Nonrecurring</u>	
A. 3-Year Plan				
1. Initial Single-attached Node at a new location	F2N3X			
N-MSA		\$1850.00	\$1400.00	(T)
Price Band 4		1850.00	1400.00	(N)
Price Band 5		1850.00	1400.00	
Price Band 6		1850.00	1400.00	(N)
2. Additional Single-attached Node at an existing location	F2N3A			
N-MSA		1300.00	1400.00	(T)
Price Band 4		1300.00	1400.00	(N)
Price Band 5		1300.00	1400.00	
Price Band 6		1300.00	1400.00	(N)
3. Repeater	FRV3X			
N-MSA		1400.00	0.00	(T)
Price Band 4		1400.00	0.00	(N)
Price Band 5		1400.00	0.00	
Price Band 6		1400.00	0.00	(N)
4. Interoffice Mileage - per mile	1HY3S			
N-MSA		90.00	0.00	(T)
Price Band 4		90.00	0.00	(N)
Price Band 5		90.00	0.00	
Price Band 6		90.00	0.00	(N)
5. Subsequent Port Activation per port	NRBFH			
N-MSA		0.00	250.00	(T)
Price Band 4		0.00	250.00	(N)
Price Band 5		0.00	250.00	
Price Band 6		0.00	250.00	(N)
6. Dual-attached Node	F4N3X			
N-MSA		3500.00	0.00	(T)
Price Band 4		3500.00	0.00	(N)
Price Band 5		3500.00	0.00	
Price Band 6		3500.00	0.00	(N)

Material formerly shown on this page now appears on Pages 16-54.1 and 16.54.2

(This page filed under Transmittal No. 55)

Issued: June 18, 2001

Effective: July 3, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.4 Full Fiber Distributed Data Interface (Cont'd)16.4.7 Rates and Charges (**Effective November 3, 2000, these services are not available to new subscribers**) (Cont'd)

## B. 5-Year Plan

	<u>Rate Element</u>	<u>USOC</u>	<u>Recurring</u>	<u>Nonrecurring</u>	(M)
1.	Initial Single-attached Node at a new location	F2N5X			(M)
	N-MSA		\$1650.00	\$1300.00	(T)
	Price Band 4		1650.00	1300.00	(N)
	Price Band 5		1650.00	1300.00	
	Price Band 6		1650.00	1300.00	(N)
2.	Additional Single-attached Node at an existing location	F2N5A			(M)
	N-MSA		1100.00	1300.00	(T)
	Price Band 4		1100.00	1300.00	(N)
	Price Band 5		1100.00	1300.00	
	Price Band 6		1100.00	1300.00	(N)
3.	Repeater	FRV5X			(M)
	N-MSA		1300.00	0.00	(T)
	Price Band 4		1300.00	0.00	(N)
	Price Band 5		1300.00	0.00	
	Price Band 6		1300.00	0.00	(N)
4.	Interoffice Mileage per mile	1HY5S			(M)
	N-MSA		80.00	0.00	(T)
	Price Band 4		80.00	0.00	(N)
	Price Band 5		80.00	0.00	
	Price Band 6		80.00	0.00	(N)
5.	Subsequent Port Activation - per port	NRBFH			(M)
	N-MSA		0.00	250.00	(T)
	Price Band 4		0.00	250.00	(N)
	Price Band 5		0.00	250.00	
	Price Band 6		0.00	250.00	(N)
6.	Dual-attached Node	F4N5X			(M)
	N-MSA		3400.00	0.00	(T)
	Price Band 4		3400.00	0.00	(N)
	Price Band 5		3400.00	0.00	
	Price Band 6		3400.00	0.00	(N)

Certain material on this page formerly appeared on Page 16-54.

(This page filed under Transmittal No. 55)

Issued: June 18, 2001

Effective: July 3, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.4 Full Fiber Distributed Data Interface (Cont'd)16.4.7 Rates and Charges (Effective November 3, 2000, these services are not available to new subscribers) (Cont'd)

## C. 10-Year Plan

	<u>Rate Element</u>	<u>USOC</u>	<u>Recurring</u>	<u>Nonrecurring</u>	(M)
1.	Initial Single-attached Node at a new location	F2NJX			(M)
	N-MSA		\$1300.00	\$1200.00	(T)
	Price Band 4		1300.00	1200.00	(N)
	Price Band 5		1300.00	1200.00	
	Price Band 6		1300.00	1200.00	(N)
2.	Additional Single-attached Node at an existing location	F2NJA			(M)
	N-MSA		750.00	1200.00	(T)
	Price Band 4		750.00	1200.00	(N)
	Price Band 5		750.00	1200.00	
	Price Band 6		750.00	1200.00	(N)
3.	Repeater	FRVJX			(M)
	N-MSA		1100.00	0.00	(T)
	Price Band 4		1100.00	0.00	(N)
	Price Band 5		1100.00	0.00	
	Price Band 6		1100.00	0.00	(N)
4.	Interoffice Mileage - per mile	1HYJS			(M)
	N-MSA		70.00	0.00	(T)
	Price Band 4		70.00	0.00	(N)
	Price Band 5		70.00	0.00	
	Price Band 6		70.00	0.00	(N)
5.	Subsequent Port Activation - per port	NRBFH			(M)
	N-MSA		0.00	250.00	(T)
	Price Band 4		0.00	250.00	(N)
	Price Band 5		0.00	250.00	
	Price Band 6		0.00	250.00	(N)
6.	Dual-attached Node	F4NJX			(M)
	N-MSA		3000.00	0.00	(T)
	Price Band 4		3000.00	0.00	(N)
	Price Band 5		3000.00	0.00	
	Price Band 6		3000.00	0.00	(N)

Certain material on this page formerly appeared on Page 16-54.

(This page filed under Transmittal No. 55)

Issued: June 18, 2001

Effective: July 3, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service16.5.1 Service Description

The Telephone Company's IP (Internet Protocol) Routing Service, IPRS, provides for the collection, concentration and management of the customer's data traffic within a LATA. IPRS consists of network routers located at LATA hub sites that will collect the customer's end user data traffic and concentrate it for connection and transport over the Telephone Company's Packet Data Service to a customer's designated location.

The customer has the option of utilizing, as a feature of IPRS, Single Number Routing in lieu of local telephone numbers, which are included as part of IPRS. This option provides for all end users in a defined geographic area (i.e., a LATA) to have access to the customer via one specialized telephone number. The end user can initiate a call within the service area to the customer, and the call will be treated as a local call by the Telephone Company for the connection and duration of the call. This option is part of the standard IPRS offering and is included in the rates and charges for IPRS at no additional charge.

The following two alternatives are offered to the customer under this option:

1. The Telephone Company will assign a Single Number Routing telephone number from a 500 NPA; or
2. The customer can provide the Telephone Company with its own 555-XXXX telephone number acquired from the North American Numbering Plan Administration.

For those customers that opt for Single Number Routing, the Telephone Company will provision either a single 500 or 555 telephone number. If the customer requests additional 500 or 555 telephone numbers, special assembly charges will apply.

IPRS provides two types of ports for the collection of end user data traffic. The port type(s) is/are determined by the method(s) chosen by the customer for access to its end user(s). The two port types are:

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.1 Service Description (Cont'd)

- 1) Dial-up Port
- 2) IPRS DS1/1.544 Mbps Port\*

(C)

The Dial-up Port type is intended for use with a single computer connection and not for connection to a Local Area Network (LAN).

IPRS does not include the end user access service. End user services and facilities are available from this and other public telephone network tariffs.

IPRS requires the use of RADIUS (Remote Authentication Dial-In User Service), a network security protocol, for the customer's authentication and authorization of its dial-up end user(s). See Section 16.5.2 following for technical references.

Maintenance and upgrades for IPRS are performed during the hours of 11:00 p.m. and 8:00 a.m. At times, during the hours of maintenance activity, it will be necessary to place a customer's service in an inactive or out-of-service condition. The amount of time that this scheduled out-of-service condition will exist is called a "maintenance window." The Telephone Company will provide the customer notice prior to the maintenance window and will work cooperatively with the customer to minimize service disruption. Maintenance window activity could be scheduled for consecutive days.

16.5.2 Technical Specifications

IPRS is provided in compliance with standards established by the Internet Architecture Board as stated in the following publications:

STD 0001, Internet Official Protocol Standards; J Postel, Editor, issued June 1997.

RFC 2138, Remote Authentication Dial-In User Service (RADIUS); C Rigney, A. Rubens, W. Simpson, S. Wilens., issued April 1997.

\* Effective September 15, 2001, the IPRS DS1/1.544 Mbps Port will no longer be available for new service requests.

(N)  
(N)

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(This page filed under Transmittal No. 88)

Issued: August 31, 2001

Effective: September 15, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.3 Terms and Conditions

(A) IPRS is a hubbed service. IPRS wire centers are designated in (B) following.

(B) <u>LATA</u>	<u>HUB Wire Center</u>
Washington	Arlington
Washington	Gaithersburg
Washington	Reston - Fox Mills
Washington	Waldorf
Washington	Washington, D.C.
Baltimore	Columbia
Baltimore	Crofton
Baltimore	Westminster
Baltimore	Towson
Roanoke	Roanoke
Roanoke	Blacksburg
Roanoke	Norton
Salisbury	Salisbury
Culpeper	Culpeper
Culpeper	Fredericksburg
Culpeper	Leesburg
Hagerstown	Fredrick
Hagerstown	Hagerstown
Hagerstown	Martinsburg
Norfolk	Aberdeen
Richmond	Chester
Philadelphia	Conshohocken
Philadelphia	Ardmore
Philadelphia	Springfield
Philadelphia	Hatboro
Philadelphia	Newtown
Philadelphia	Doylestown
Philadelphia	Pottstown
Philadelphia	Exton
Philadelphia	West Chester
Philadelphia	Reading
Philadelphia	Market
Philadelphia	Mountainville
Philadelphia	Perkasie
Altoona	Altoona
Altoona	Barnesboro
Altoona	State College
Lynchburg	Church Street

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.3 Terms and Conditions (Cont'd)

## (B) (Cont'd)

<u>LATA</u>	<u>HUB Wire Center</u>
Pittsburgh	Downtown
Pittsburgh	Uniontown
Pittsburgh	Bethel Park
Pittsburgh	Washington
Pittsburgh	Greenburg
Pittsburgh	Robinson Township
Pittsburgh	Perrysville
Pittsburgh	Oakmont
Pittsburgh	Monroeville
Pittsburgh	Beaver Falls
Capital	Harrisburg
Capital	Lebanon
Capital	Millersville
Capital	Newark
Capital	Dover
Capital	Georgetown
North Jersey	New Brunswick
North Jersey	Toms River
North Jersey	Lakewood
North Jersey	Spring Lake
North Jersey	Middletown
North Jersey	Jamesburg
North Jersey	Woodbridge
North Jersey	Plainfield
North Jersey	Bernardsville
North Jersey	Madison
North Jersey	Newark 2
North Jersey	Little Falls
North Jersey	Cliffside park
North Jersey	Closter
North Jersey	Ramsey
North Jersey	West Milford
North Jersey	Succasunna
North Jersey	Washington
Delaware Valley	Collingswood
Delaware Valley	Camden
Delaware Valley	Ewing
Delaware Valley	Burlington
Delaware Valley	Mount Holly
Delaware Valley	Wenonah
Delaware Valley	Vineland
Atlantic Coastal	Ocean City
Atlantic Coastal	Hammonton
Atlantic Coastal	Pleasantville
Atlantic Coastal	Wildwood
Northeast	Scranton
Clarksburg	Clarksburg
Clarksburg	Morgantown
Charleston	Charleston
Charleston	Parkersburg

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.3 Terms and Conditions (Cont'd)

- (C) IPRS is available on a month-to-month basis and for commitment periods of 3 years and 5 years.
- (D) Month-to-month service is subject to a minimum service period of 12 months.
- (E) Customers electing a 3-year or 5-year term must also select a minimum port volume for the service period.
- (F) IPRS is provided on a negotiated service date interval.
- (G) IPRS is monitored and maintained 24 hours-a-day 7 days-a-week for trouble isolation and resolution.
- (H) The customer is responsible for purchasing an adequate quantity of ports to accommodate originating dial-up traffic, which is delivered to the selected IPRS hub(s) for aggregation and routing to the customer's host location. A Port Capacity Report, furnished by the Telephone Company, that indicates 100% utilization for 30 minutes or more during any one-week period will require the customer to augment their port capacity accordingly in the affected hub(s).

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.4 Rate Regulations

- A) All rate categories are billed monthly.
- B) Nonrecurring charges apply for the installation of each port as set forth in Section 16.5.6 following.  
  
A conversion of service to a new commitment period of equal or greater length than the remainder of the existing term does not incur nonrecurring charges for the existing port.
- C) When the customer's commitment period ends, the rates associated with the quantity of ports installed under such commitment period will remain in effect.
- D) Termination liability applies when a port is disconnected prior to the end of the minimum service period or prior to the end of the selected commitment period. Liability is assessed as follows:

Month-to-Month Service: The customer is responsible for 100% of the monthly rates for the entire 12-month minimum service period.

3 and 5-Year Terms: The customer is responsible for 100% of the monthly rate for the first 12 months and 15% of the remaining monthly charges.

Termination liability is waived if a port is converted to another term of equal or greater value in revenue than the remainder of the present term.

Termination liability is waived when a customer replaces one port for another type and commits to a term of equal or greater value in revenue than the remainder of the current commitment. The replacement is subject to applicable nonrecurring charges.

If the customer's recurring rate increases, the customer may discontinue service without liability.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.4 Rate Regulations (Cont'd)

- (E) Customers with a 3-year or 5-year term commitment must order service with a volume commitment, enabling the customer to receive the discount applicable to the appropriate volume tier for the committed volume for all ports subscribed. Customers with this option and a 3-year term will have 12 months after the initial port installation to reach the committed port volume. Customers with a 5-year term who select this option will have 24 months after the initial port installation to reach the committed volume.

Six months after the end of the appropriate 12 or 24 month installation window, a review of the customer's account will be performed to verify that the committed volume level has been achieved. Rates will be adjusted accordingly based upon the number of ports in service.

Failure to achieve the guaranteed quantity of ports within the specified time frame will result in all ports being rerated to the applicable monthly rate for the quantity actually in service. In addition, a liability charge equal to the monthly rate per port at the guaranteed commitment level multiplied by the port shortfall (the difference between the committed volume and the actual number of ports in service) multiplied by 3 months will apply.

In the event the customer has exceeded the commitment level, and the number of ports in service qualifies for a lower monthly rate based upon the volume tier for that number of ports, all ports will be rerated to the new, lower monthly rate.

Customer account reviews will be performed semi-annually after the first review until the end of the commitment period.

- (F) Customers with a 3-year or 5-year term commitment may add additional ports at any time during the commitment period at the rates applicable for the term commitment and the volume commitment initially selected. All ports will therefore be subject to a common expiration date for service commitment.
- (G) IPRS ports must be purchased in increments of 23 ports, except where available as single port quantities.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.4 Rate Regulations (Cont'd)

(H) Upon receipt of a bona fide request from a customer for a port quantity in excess of 75,500 Ports, the Telephone Company will work cooperatively with the customer to develop a per port rate for the requested quantity. Once the per-port rate is developed and accepted by the customer, it will then be tarified and made available to any other customers requesting that same port quantity.

(I) IPRS Reports

- (1) IPRS includes a text-based, preformatted Daily Capacity Report that includes all network elements and all items from the previous day. This report is provided to each IPRS customer each day via e-mail without charge.
- (2) Customers desiring additional reports may choose optional Customer Service Management (CSM) Reports. The Telephone Company will provide IPRS customers with traffic reports and the ability to access this traffic data in near real-time via web-based access. The following reports will be available to the IPRS customer:
  - (a) Total Connections, Analog and Digital
  - (b) Analog and Digital Ratio
  - (c) Calls Increment (Measuring total calls received in ten minute intervals)
  - (d) ISDN Connections
  - (e) Modem Connections (Measuring analog call connections)
  - (f) Seconds Increment (Measuring total duration in seconds for a specific period of time)
  - (g) Weekly Maximum for Total Connections, Analog and Digital

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.4 Rate Regulations (Cont'd)(I) IPRS Reports (Cont'd)

- (3) Customers opting for the CSM Reports will have the ability to display varying time periods for archived data, in varying intervals (i.e., several days, weeks, or months up to 12 months prior). CSM customers will also have the ability to view the output data graphically. Appropriate output may also be displayed illustrating Raw Data, Peaks, or Averages. Polling across the IPRS network for the CSM reports occurs in 10-minute intervals on average. Output data is not available for the most recent 24 hours prior to the query.
- (4) Recurring and Nonrecurring charges are based on a per-user access limited to six (6) IP addresses. The price entitles the customer to access the entire menu of available reports. Charges are assessed based on the size of the IPRS network (200 IPRS ports or less, or greater than 200 IPRS ports). If additional user access is needed, customers will be required to pay an additional appropriate monthly rate for each additional user access requested.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

16. Packet Data Services (Cont'd)

16.5 IP (Internet Protocol) Routing Service (Cont'd)

16.5.5 Rate Categories

- A) Dial-up Port: Provides one data path connection in a local calling area of the company designated by the customer for analog/ISDN dial-up access to the customer by the customer's end users, and the IP routing of the end user data to the customer.
- B) IPRS DS1/1.544 Mbps Port\*: Provides connection and IP routing of end user data terminated over dedicated private line facilities at a speed of 1.544 Mbps. (C)

\* Effective September 15, 2001, these ports will no longer be available for new service requests (N)  
(N)

(This page filed under Transmittal No. 88)

Issued: August 31, 2001

Effective: September 15, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.6 Rates and Charges  
- per port

## A) Dial-up Port

<u>Port Category</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	
<u>Month-to-Month</u>				
Up to 75,500 Ports	PRLA6			
N-MSA		\$56.00	\$35.00	(T)
Price Band 4		56.00	35.00	(N)
Price Band 5		56.00	35.00	
Price Band 6		56.00	35.00	(N)
Over 75,500 Ports		See 16.5.4 (H) preceding		
<u>3-year Term</u>				
Up to 9,660 Ports	PRLJ2			
N-MSA		39.00	0.00	(T)
Price Band 4		39.00	0.00	(N)
Price Band 5		39.00	0.00	
Price Band 6		39.00	0.00	(N)
Up to 16,100 Ports	PRLJ3			
N-MSA		38.00	0.00	(T)
Price Band 4		38.00	0.00	(N)
Price Band 5		38.00	0.00	
Price Band 6		38.00	0.00	(N)
Up to 32,200 Ports	PRLJ4			
N-MSA		37.00	0.00	(T)
Price Band 4		37.00	0.00	(N)
Price Band 5		37.00	0.00	
Price Band 6		37.00	0.00	(N)
Up to 48,300 Ports	PRLJ5			
N-MSA		36.00	0.00	(T)
Price Band 4		36.00	0.00	(N)
Price Band 5		36.00	0.00	
Price Band 6		36.00	0.00	(N)
Up to 64,400 Ports	PRLJ6			
N-MSA		34.00	0.00	(T)
Price Band 4		34.00	0.00	(N)
Price Band 5		34.00	0.00	
Price Band 6		34.00	0.00	(N)
Up to 75,500 Ports	PRLJ8			
N-MSA		32.00	0.00	(T)
Price Band 4		32.00	0.00	(N)
Price Band 5		32.00	0.00	
Price Band 6		32.00	0.00	(N)
Over 75,500 Ports		See 16.5.4 (H) preceding		

Material formerly shown on this page now appears on Page 16-65.1.

(This page filed under Transmittal No. 55)

Issued: June 18, 2001

Effective: July 3, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.6 Rates and Charges (Cont'd)  
- per port

## A) Dial-up Port (Cont'd)

<u>Port Category</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charges</u>	(M)
<u>5-Year Term</u>				
Up to 9,660 Ports	PRLQ2			(M)
N-MSA		\$36.00	\$0.00	(T)
Price Band 4		36.00	0.00	(N)
Price Band 5		36.00	0.00	
Price Band 6		36.00	0.00	(N)
Up to 16,100 Ports	PRLQ3			(M)
N-MSA		35.00	0.00	(T)
Price Band 4		35.00	0.00	(N)
Price Band 5		35.00	0.00	
Price Band 6		35.00	0.00	(N)
Up to 32,200 Ports	PRLQ4			(M)
N-MSA		34.00	0.00	(T)
Price Band 4		34.00	0.00	(N)
Price Band 5		34.00	0.00	
Price Band 6		34.00	0.00	(N)
Up to 48,300 Ports	PRLQ5			(M)
N-MSA		33.00	0.00	(T)
Price Band 4		33.00	0.00	(N)
Price Band 5		33.00	0.00	
Price Band 6		33.00	0.00	(N)
Up to 64,400 Ports	PRLQ6			(M)
N-MSA		31.00	0.00	(T)
Price Band 4		31.00	0.00	(N)
Price Band 5		31.00	0.00	
Price Band 6		31.00	0.00	(N)
Up to 75,500 Ports	PRLQ8			(M)
N-MSA		29.00	0.00	(T)
Price Band 4		29.00	0.00	(N)
Price Band 5		29.00	0.00	
Price Band 6		29.00	0.00	(N)
Over 75,500 Ports		See 16.5.4 (H) preceding		

Certain material on this page previously appeared on Page 16-65.

(This page filed under Transmittal No. 55)

Issued: June 18, 2001

Effective: July 3, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.5 IP (Internet Protocol) Routing Service (Cont'd)16.5.6 Rates and Charges (Cont'd)  
- per port

B) DS-1 (1.544Mbps) *		(C)	
Port Category	USOC	Monthly Rate	Nonrecurring Charges
Month-to-Month	PRL1X		
N-MSA		\$175.00	\$200.00
Price Band 4		175.00	200.00
Price Band 5		175.00	200.00
Price Band 6		175.00	200.00
3-Year Term	PRLPX		
N-MSA		165.00	0.00
Price Band 4		165.00	0.00
Price Band 5		165.00	0.00
Price Band 6		165.00	0.00
5-Year Term	PRLVX		
N-MSA		150.00	0.00
Price Band 4		150.00	0.00
Price Band 5		150.00	0.00
Price Band 6		150.00	0.00

\* Effective September 15, 2001, these ports will no longer be available (N)  
for new service requests. (N)

CSM Reports

C) IPRS Networks of 200 IPRS Ports or Less Per user			
	F5R1R		
N-MSA		50.00	100.00
Price Band 4		50.00	100.00
Price Band 5		50.00	100.00
Price Band 6		50.00	100.00
D) IPRS Networks of Greater Than 200 IPRS Ports Per user			
	F5R2R		
N-MSA		350.00	500.00
Price Band 4		350.00	500.00
Price Band 5		350.00	500.00
Price Band 6		350.00	500.00

(This page filed under Transmittal No. 88)

Issued: August 31, 2001

Effective: September 15, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service  
(XA ATM-CRS)#(A) General

Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) is a telecommunications transport and switching service that provides for high speed connectivity between and among widely distributed locations. It is a fast packet, cell-based technology which supports user applications requiring high and flexible bandwidth, high-performance transport and switching.

XA ATM-CRS is comprised of an interface, User Network Interface (UNI) at the ATM switch and a transport facility that terminates on compatible customer premises equipment (CPE). These UNI Access Connections are connected via Permanent Virtual Circuits (PVCs) using Asynchronous Transfer Mode technology over the Telephone Company's fast packet network.

All XA ATM-CRS access facilities must be in conformance with American National Standards Institute (ANSI) standards. Technical specifications for this service are described in the following technical publications:

TR-NWT-001112, Issue 1  
Issued: December 1994

GR-1110-CORE, Issue 1  
Issued: September 1994

GR-1248-CORE, Issue 2  
Issued: September 1995

SR-3330, Issue 1  
Issued: November 1994

The compatible network channel interfaces (NCIs) and Network channel codes (NCCs) are:

<u>NCI</u>	<u>NCC</u>
DS1	HCE6
DS3	HFC6
OC3c	OBA6

XA ATM-CRS services are generally available in all LATAs except Hagerstown (240) and Salisbury (242).

(B) Definitions

1. User Network Interface (UNI) Access Connection: a dedicated digital transmission facility that provides a connection from the customer's premises to a UNI on a XA ATM-CRS switch. The effective maximum data rate for these services are DS1 (1.54 Megabits per second), DS3 (45 Mbps), or OC3c (155 Mbps).

#Service availability is limited. See regulations in Sections (D)(14) and (D)(15) following.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service  
(XA ATM-CRS) # (Cont'd)(B) Definitions (Cont'd)

2. UNI Access Connection (UNI): Cont'd  
Each UNI Access Connection requires at least one Permanent Virtual Circuit (PVC). A customer may elect to subscribe to multiple PVCs. This feature is established over the UNI Access Connection via address mapping which enables the customer to have virtual connections to various locations.

3. Permanent Virtual Connection (PVC): a Cell Relay Service used to provide a virtual connection between two customer locations. The PVC defines a path across the UNI Access Connection between the customer premises and the Telephone Company's ATM switch. Each UNI Access Connection requires the purchase of at least one PVC. The path is set up by the Telephone Company based on information contained on a service order rather than by dial-up signaling.

Virtual Channel Connection (VCC): a type of PVC with independent identity and defined service parameters that is provisioned via Service Order, and cannot be altered by the customer without additional Service Order activity.

Virtual Path Connection (VPC): a type of PVC with defined service parameters that is provisioned via a Service Order. Customers may provision their own virtual connections within the VPC provided that the sum of the service parameters of all of the virtual channels do not exceed the aggregate service parameters of the VPC.

4. Constant Bit Rate (CBR): a steady flow of user information required to support applications where variable delays in transmission can negatively impact the information content. Examples of applications requiring CBR are voice, and some types of video.
5. Variable Bit Rate (VBR): a flow of information that is bursty, and does not flow at a constant rate. An example of an application using VBR is Local Area Network (LAN) traffic.

#Service availability is limited. See regulations in Sections (D) (14) and (D) (15) following.

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service  
(XA ATM-CRS)#(Cont'd)(B) Definitions (Cont'd)

6. Sustained Cell Rate (SCR): the maximum rate at which VBR cells may be constantly transmitted with a high assurance that no cells will be lost. Cells transmitted within the SCR have the highest priority of the VBR traffic, and will not be tagged as eligible for discard.
7. Peak Cell Rate (PCR): the highest available rate of information transfer on a Variable Bit Rate connection, and the continuous cell rate allowed for Constant Bit Rate. Cells exceeding the sustained cell rate and below the peak cell rate will be limited to a maximum burst size.
8. Maximum Burst Size (MBS): the maximum number of cells that can be passed to the service provider's network in a single burst at a rate that exceeds the SCR, but does not exceed the PCR assigned to the VBR connection. Cells exceeding the MBS will be declared as nonconformant and will be discarded.
9. Cell Delay Variation Tolerance (CDV): the amount of variation permitted for early arrival of clusters of cells at the source UNI Access Connection. Cells exceeding the tolerance will be declared nonconformant and will be discarded.
10. Synchronous Optical Network (SONET): an international standard for the transmission of high capacity bandwidth over optical facilities. As defined in this service offering, the OC3c SONET connection is provisioned as a survivable service with an alternate (not diverse) route.  
  
Direct Fiber: one type of SONET UNI Access Connection that is provisioned using an optical fiber interface with no alternate routing.
11. Unspecified Bit Rate (UBR): a bursty, not steady, flow of data with varying bandwidth requirements (e.g., Local Area Network traffic). UBR, unlike PCR and SCR, is the lowest class of service and has no quality of service parameters.

#Service availability is limited. See regulations in Sections (D)(14) and (D)(15) following.

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(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service  
(XA ATM-CRS) # (Cont'd)(C) Service Descriptions

## 1. Basic Service

The basic XA ATM-CRS service consists of transport of ATM cells of information from one UNI Access Connection to another or other UNI Access Connections. Each cell relay cell is delivered unchanged from the source to the destination. The service consist of:

- a. UNI Access Connection(s) from the customer's premises and from the premises of the customer's designated Interexchange Carrier to the Telephone Company's XA ATM-CRS network. The maximum bandwidths of the UNI Access Connections are 1.54 Mbps for the DS1, 45 Mbps for the DS3 and 155 Mbps for the OC3c.

The OC3c UNI Access Connection is available provisioned over SONET facilities which provide a survivable service that automatically switches to an alternate (not diverse) path in the event of a failure on the primary path, or provisioned over a direct fiber with no alternative route.

- b. An initial quantity of variable bit rate bandwidth for use by the customer is included within the UNI Access Connection. The initial quantity of bandwidth will be 10 Mbps for a DS3 UNI Access Connection or 25 Mbps for an OC3c UNI Access Connection. For the DS1 UNI Access Connection, the line speed of 1.54 Mbps will be the initial quantity of bandwidth.
- c. At least one PVC is required per UNI Access Connection. The PVC is purchased separately from the UNI Access Connection. PVCs can be either a VCC or a VPC of constant, variable, or unspecified bit rate.
- d. UBR is provided only when the following minimums are met and at no additional monthly charge: 25 Mbps of VBR, CBR or a combination of both for a DS3 UNI; any combination of at least 75 Mbps for an OC3c UNI; and any combination of 1.536 Mbps for a DS1 UNI.

## 2. Optional Features

- a. Additional variable bit rate bandwidth on the UNI Access Connection above the initial quantity in increments of 5 Mbps on DS3 or 10 Mbps on OC3c.
- b. Upgrade of the initial bandwidth of the DS3 UNI Access Connection from 10 Mbps of VBR bandwidth to any combination of CBR, and VBR bandwidth.

#Service availability is limited. See regulations in Sections (D) (14) and (D) (15) following.

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service  
(XA ATM-CRS) # (Cont'd)(C) Service Descriptions (Cont'd)

## 2. Optional Features (Cont'd)

- c. Upgrade of the bandwidth of the DS1 UNI Access Connection from VBR to any combination of VBR and CBR.
- d. Upgrade of OC3c UNI Access Connection from the initial 25 Mbps of VBR bandwidth to any combination of CBR, and VBR bandwidth.
- e. Upgrade of additional VBR bandwidth over and above the initial bandwidth to any combination of VBR and CBR bandwidth.

## 3. Service Parameters

## a. CBR

Peak/Sustained Cell Rate	Customer selected in increments of 64 Kilobits per second up to the maximum speed of the UNI Access Connection.
--------------------------	---

Nonconforming Cells	Discarded
---------------------	-----------

Cell Delay Variation Tolerance (CDVT)	OC3c = 50 microseconds DS3 = 150 microseconds DS1 = 600 microseconds
---------------------------------------	--

## b. VBR (non Real Time)

Sustained Cell Rate (SCR)	Customer specified in increments of 64 Kilobits per second up to the maximum available capacity of the UNI Access Connection.
---------------------------	---

Peak Cell Rate (PCR)	200% of Sustained Rate up to the maximum capacity of the line.
----------------------	--

Cell Delay Variation Tolerance (CDVT)	OC3c = 50 microseconds DS3 = 150 microseconds
---------------------------------------	--

Maximum Burst Size (MBS)	100 Cells
--------------------------	-----------

#Service availability is limited. See regulations in Sections (D) (14) and (D) (15) following.

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service  
(XA ATM-CRS) # (Cont'd)(C) Service Descriptions (Cont'd)

## 3. Service Parameters (Cont'd)

## Nonconforming Cells

Exceeding Peak Rate	Discarded
Exceeding Sustained Cell Rate plus MBS	Tagged and/or Discarded

(D) Terms and Conditions

1. XA ATM-CRS is ordered under the Access Order provisions on a negotiated interval as set forth in Section 5 preceding. And, the cancellation charges for UNI Access Connections are the same as those for the underlying high capacity services as described in Section 5.
2. The customer must provide compatible equipment (e.g., routers, access concentrators, ATM switches, etc.) in accordance with interface specifications defined in the ATM Forum UNI 3.0 or 3.1 specifications for Permanent Virtual Connections. See the technical references listed in Section 16.6 A.
3. The Telephone Company's responsibility is limited to the furnishing of communications facilities and switches suitable for the digital User Network Interface.
4. The Telephone Company is not responsible for the installation, operation, or maintenance of any equipment provided by the customer.
5. Customer provided equipment must be capable of receiving clock and recovering clock from the network.
6. An administrative charge is applicable whenever a customer initiated change is made to the parameters of a Virtual Channel Connection or Virtual Path Connection regarding speed or other service parameters that do not involve remapping of the connection. Such changes are defined as those requiring no changes in physical facilities, and are able to be implemented from the Telephone Company's Network Control Center without dispatch of a technician to the customer location. The charge is applied on a per VCC/VPC basis.
7. A move or relocation of an UNI Access Connection will be treated as a termination of the existing service and the establishment of a new service. All charges applicable to a new installation apply.

#Service availability is limited. See regulations in Sections (D) (14) and (D) (15) following.

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service  
(XA ATM-CRS) # (Cont'd)(D) Terms and Conditions (Cont'd)

8. XA ATM-CRS is available on a Month-to-Month basis or for periods of 3 and 5 years.

a. Minimum Period

The minimum period for service purchased on a month-to-month basis is six months.

b. Termination Liability

For the three year term, the customer is liable for 100% of the monthly charges for 36 months.

For the five year term, the customer is liable for 100% of the monthly charges for 60 months

or

as an alternative, the liability is equal to the total number of months completed in the term period times the difference between the three year and five year rate. For example, if 48 months had elapsed from the time the service was in effect, and the five year plan had initially been selected, the alternative termination liability would be calculated using the following formula:

Terminating Liability = 48 X (the three year rate minus the five year rate)

9. A customer may at any time request to move from an existing term to a new term of equal or greater length without incurring termination liability for the initial term.
10. Once a term period has expired, the prevailing rates will apply.
11. If rates increase during the plan period, the customer may discontinue service without termination liability within 120 days of the rate increase. If the service is continued after the 120 days, all current plan terms and conditions apply, including termination liability.
12. The Telephone Company network maintenance and network upgrades are normally performed during the hours of 11:00 p.m. and 8:00 a.m. When it is necessary to place a customer's service in an inactive (out of service) condition, the Company will provide customers reasonable and timely notification to minimize impacts to the customer's service.

#Service availability is limited. See regulations in Sections (D) (14) and (D) (15) following.

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service  
(XA ATM-CRS) # (Cont'd)(D) Terms and Conditions (Cont'd)

13. All the Telephone Company XA ATM-CRS customers (existing service), whose total monthly recurring charges are greater than the total monthly charges for similar functions offered in the new "ATM Cell Relay Service" tariff as specified in section 16.6.1 following, may convert all of their existing services to those offered in the new tariff prior to February 18, 2000, without termination liability.

The following applies to those customers whose total monthly recurring charges under the existing tariff structure are less than the monthly recurring charges for similar functions in the new tariff service.

Customers that have existing Term Plans may continue under their current arrangement until the end of their term.

Existing Customers may add, delete, or change bandwidth, Virtual Circuits and Quality of Service levels under the existing terms and conditions as specified in Section 16.6 preceding as long as the existing UNIs remain in service under their existing Term Plans.

14. Effective December 2, 2000, this service will no longer be provided in the states of Pennsylvania and Delaware by the Telephone Company but through Verizon Advanced Data, Inc.
15. Effective December 16, 2000, this service will be provided by the Company only in the State of New Jersey. Provision of this service in all other states will be through Verizon Advanced Data, Inc.

#Service availability is limited. See regulations in Sections (D) (14) and (D) (15).

(This page filed under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service  
(XA ATM-CRS) # (Cont'd)(D) Terms and Conditions (Cont'd)16. Exchange Access ATM CRS (XA ATM-CRS) MRC & NRC Credit for (N)  
Migrating Exchange Access Switched Multi-Megabit Data  
Service (XASMDS) II Customers

Effective January 1, 2002, for Customers who subscribe to Exchange Access Switched Multi-Megabit Data Service (XASMDS) as described in Section 16.2 preceding, and migrate to XA ATM-CRS by ordering new User Network Interface Ports and committing to a term volume plan of three or more years, the Telephone Company offers a one time monthly recurring charge (MRC) credit and non-recurring charge (NRC) credit for each XASMDS port converted to a ATM UNI or Port of equal or greater bandwidth available at the Customer's location.

The MRC credit includes two (2) month's monthly recurring charge credit per DS1, DS3 or OC3c UNI port only. The MRC credit excludes sustained or peak cell rate charges. The MRC credit will be applied to the Customer's first full invoice after receipt by the Customer.

The NRC credit will include the nominal assessed one-time non-recurring charges per DS1, DS3 or OC3c UNI port only. The NRC credit will incorporate all standard installation charges and excludes any custom billing installation charges assessed via custom billing services contract. The NRC credit will be applied to Customer's first full invoice after receipt by the Customer.

This offer is not applicable to custom billing contracts or individual case billing contracts and is not valid with any other promotions, unless otherwise specified. Additionally, this offer does not apply to any XA ATM CRS UNI ports ordered or in service on or prior to January 1, 2002.

If the Customer terminates a term volume plan within two years after installation of service, the Customer may be assessed the full amount of the credits, as well as any applicable early termination charges, as described in Section xxx preceding.

Customers may take advantage of this offer through August 31, 2002. (N)

#Service availability is limited. See regulations in Sections (D) (14) and (D) (15).

(Issued under Transmittal No. 131)

Issued: December 17, 2001

Effective: January 1, 2002

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service  
(XA ATM-CRS) # (Cont'd)(E) Rates and Charges

		USOC	Monthly Rate	Nonrecurring Charge
1.	User Network Interface, (UNI), Access Connection, each			
a.	Month to Month			
	DS1 UNI Access Connection with 1.544 Mbps of Variable Bit Rate Bandwidth	N7A1M	\$ 650.00	\$0.00
	DS3 UNI Access Connection with 10 Mbps of Variable Bit Rate Bandwidth	N7AXM	3,700.00	0.00
	OC3c SONET UNI Access Connection with 25 Mbps of Variable Bit Rate Bandwidth	N7ASM	7,250.00	0.00
	OC3c SONET Direct Fiber UNI Access Connection with 25 Mbps of Variable Bit Rate Bandwidth	N7AFM	4,550.00	0.00
b.	Three Year Term			
	DS1 UNI Access Connection with 1.544 Mbps of Variable Bit Rate Bandwidth	N7A13	575.00	0.00
	DS3 UNI Access Connection with 10 Mbps of Variable Bit Rate Bandwidth	N7AX3	3,100.00	0.00
	OC3c SONET UNI Access Connection With 25 Mbps of Variable Bit Rate Bandwidth	N7AS3	6,000.00	0.00
	OC3c Direct Fiber UNI Access Connection with 25 Mbps of Variable Bit Rate Bandwidth	N7AF3	3,800.00	0.00

#Service availability is limited. See regulations in Sections (D) (14) and (D) (15) preceding.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service  
(XA ATM-CRS) # (Cont'd)(E) Rates and Charges (Cont'd)

		USOC	Monthly Rate	Nonrecurring Charge
1.	User Network Interface, (UNI), Access Connection (Cont'd)			
	c. Five Year Term			
	DS1 UNI Access Connection with 1.544 Mbps of Variable Bit Rate Bandwidth	N7A15	\$ 525.00	\$0.00
	DS3 UNI Access Connection with 10 Mbps of Variable Bit Rate Bandwidth	N7AX5	2,800.00	0.00
	OC3c SONET UNI Access Connection with 25 Mbps of Variable Bit Rate Bandwidth	N7AS5	5,500.00	0.00
	OC3c SONET Direct Fiber UNI Access Connection with 25 Mbps of Variable Bit Rate Bandwidth	N7AF5	3,450.00	0.00
2.	Permanent Virtual Connections (PVCs)			
	Constant Bit Rate VCC	VCHXC	2.00	50.00
	Variable Bit Rate VCC	VCHXV	2.00	50.00
	Constant Bit Rate VPC	VPEXC	4.00	50.00
	Variable Bit Rate VPC	VPEXV	4.00	50.00
3.	Optional Features			
	a. For DS1 UNI Access Connections			
	Upgrade of 1.544 Mbps of Variable Bit Rate Bandwidth to any Combination of Variable Bit Rate And Constant Bit Rate	CWVAE	10.00	50.00
	b. For DS3 UNI Access Connections			
	5 Mbps of Variable Bit Rate Sustained Cell Rate Bandwidth above the initial 10 Mbps	CSAXA	100.00	50.00

#Service availability is limited. See regulations in Sections (D) (14) and (D) (15) preceding.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service  
(XA ATM-CRS) # (Cont'd)(E) Rates and Charges (Cont'd)

	USOC	Monthly Rate	Nonrecurring Charge
3. Optional Features (Cont'd)			
b. (Cont'd)			
Upgrade of initial 10 Mbps Variable Bit Rate Bandwidth to any combination of Constant Bit Rate or Variable Bit Rate Bandwidth	CWV1B	50.00	50.00
Upgrade of 5 Mbps Variable Bit Rate Bandwidth over the initial 10 Mbps to any combination of Constant Bit Rate or Variable Bit Rate Bandwidth	CWVAA	25.00	50.00
c. For OC3c SONET UNI Access Connections			
10 Mbps of Variable Bit Rate Sustained Cell Rate Bandwidth above the initial 25 Mbps	CSAXB	\$150.00	\$50.00
Upgrade of initial 25 Mbps Variable Bit Rate Bandwidth to any combination of Constant Bit Rate or Variable Bit Rate Bandwidth	CWV1D	125.00	50.00
Upgrade of 10 Mbps Variable Bit Rate Bandwidth over the initial 25 Mbps to any combination of Constant Bit Rate or Variable Bit Rate Bandwidth	CWVAB	50.00	50.00
5. Administrative Charge			
One or more changes made to a VCC or VPC on a single Service Order - Per VCC/VPC changed	REAKF		75.00

#Service availability is limited. See regulations in Sections (D) (14) and (D) (15) preceding.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service(A) General

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

Asynchronous Transfer Mode (ATM) Cell Relay Service (CRS) is a telecommunications transport and switching service that provides for high-speed connectivity between customer-designated locations. ATM CRS consists of two interfaces: User Network Interface (UNI) and Interim Inter-switch Signaling Protocol (IISP).

The UNI Port with Access Line Connection is a dedicated digital line that provides a link from the customer's premises to one of the Telephone Company's ATM CRS hubs. UNIs are also provisioned as an Inverse Multiplexing ATM (IMA) Port With Access Line Connection as defined in 16.6.1(B)(2) and as a Port Only Connection as defined in 16.6.1.(B)(4).

(C)  
|  
(C)

The IISP Port with Access Line Connection, which is essentially equivalent to the UNI, provides a link from an Interexchange Carrier or another customer's network to one of the Telephone Company's ATM CRS hubs. IISPs are also provisioned as a Port Only Connection as defined in 16.6.1.(B)(4) following.

(C)

The Port Only Connection also provides either a UNI or IISP connection to an appropriate CIS cross-connect within a wire center. Collocated Interconnection Service (CIS) Port Connection customers will continue to receive the same uninterrupted service under the Port Only Connection regulations set forth in 16.6.1(B)(3) following.

ATM CRS is a fast-packet, cell-based technology that can support user applications requiring high-bandwidth, high-performance transport and switching. This connectivity is provided via Permanent Virtual Circuits (PVCs) and/or Switched Virtual Circuits (SVCs) that are implemented over access facilities and switches that are dedicated to high-speed telecommunications services.

UNIs, IISPs, Port Only Connections, PVCs and SVCs are further described in 16.6.1(B) following.

(Issued under Transmittal No. 446)

Issued: May 21, 2004

Effective: June 5, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(B) Service Components

The major components of ATM Cell Relay Service are:

- UNI Port with Access Line Connection
- UNI IMA Port With Access Line Connection (N)
- IISP Port with Access Line Connection
- Port Only Connection
- Permanent Virtual Circuit (PVC)
- Switched Virtual Circuit (SVC)
- Effective Bandwidth
- Northern Corridor Option (S) (x)
- Southern Corridor Option (S) (x)

(x) Reissued material filed in Transmittal No. 442, and scheduled to become effective June 1, 2004.

(Issued under Transmittal No. 446)

Issued: May 21, 2004

Effective: June 5, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(B) Service Components (Cont'd)(1) User Network Interface (UNI) Port with Access Line Connection

UNI Port with Access Line Connections, which are available at the DS1, DS3, OC3c, and OC12c levels, provide dedicated transport between a customer-designated premises and an ATM CRS hub. There are two types of UNIs: Full and Incremental. The Full UNI includes all available bandwidth in one rate, and the Incremental UNI is sold and provisioned with Permanent Virtual Circuit (PVC) and/or Switched Virtual Circuit (SVC) bandwidth increments (the DS1 UNI is not offered in increments).

In order for customer traffic to be carried on the network, each Incremental UNI requires at least one 5 Mbps or 15 Mbps increment of either PVC or SVC bandwidth. At least one PVC must also be established to use PVC bandwidth. A customer may elect to subscribe to multiple PVCs. This feature is established over the UNI via connection identifiers, which enables the customer to have virtual connections to various locations.

UNIs are provided at nominal data rates of 1.544 Mbps (DS1), 45 Mbps (DS3), 155.52 Mbps (OC3c), or 622 Mbps (OC12c). OC3c and OC12c are provided as a concatenated signal in STS-3c and STS-12c (Synchronous Transport Signal) formats, respectively. The actual throughput into CRS is less than the line rate for the UNI provided. (T)

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(Issued under Transmittal No. 446)

Issued: May 21, 2004

Effective: June 5, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(B) Service Components (Cont'd)(1) User Network Interface (UNI) Port with Access Line Connection  
(Cont'd)

The rates and charges for a UNI are differentiated by the capacity of the UNI, the location where the UNI originates (i.e., customer-designated premises) and, mileage ranges (expressed as tiers) associated with extending the UNI to the wire center designated as the ATM CRS hub.

The OC3c UNI Port with Access Line Connections are provisioned on either Unprotected, Protected or Protected Diverse Synchronous Optical Network (SONET) facilities. The OC12c UNI Port with Access Line Connections are provisioned on either Protected or Protected Diverse SONET facilities. SONET is a standards-based fiber optic communication network that transports both asynchronous and synchronous digital signals using the Synchronous Transport Signal (STS) format. ATM OC3c and OC12c Protected SONET UNI Port with Access Line Connections are provisioned over SONET as a survivable service with an alternate (not diverse) facility between the central office and the customer premises. ATM OC3c and OC12c Protected Diverse UNI Port with Access Line Connections are provisioned over SONET as a survivable service with an alternate and diverse path between the ATM CRS Hub and the customer premises. Unprotected SONET UNI is a type of OC3c ATM UNI that is provisioned over SONET with no alternate facility between the ATM CRS Hub and the customer premises. DS3, OC3c, OC12c, and other interfaces, both electrical and optical, are supported and defined to the technical specifications set forth in 16.6.1(B)(5) following.

(Issued under Transmittal No. 383)

Issued: November 21, 2003

Effective: December 6, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(B) Service Components (Cont'd)(2) UNI Inverse Multiplexin ATM (IMA) Port With Access Line Connection

(N)

UNI IMA Port With Access Line Connection permits the provisioning of bandwidth greater than DS1 and less than DS3 by binding together multiple DS1 facilities. The inverse multiplexer at each end of the connection aggregates and de-aggregates multiple parallel DS1 leased lines into a single higher speed link. IMA will be offered as Full bandwidth only. Two to six DS1 facilities will be permitted in an IMA group providing nominal aggregated bandwidth from three to nine megabits per second. IMA allows for all class of service parameters up to the combined nominal line rate of the aggregated DS1s and all PVCs and/or SVCs that will fit within the bandwidth. Ordering of DS1s within an IMA group must be done in ascending order. Disconnecting DS1s within an IMA group must be done in a descending order. Customer must purchase a minimum of two IMA DS1s.

Requests to change existing UNI Port With Access Line Connections to UNI IMA Port With Access Line Connections will be treated as a disconnect and new install. Termination liability charges, as set forth in Section 5.10.12, may apply.

(N)

(Issued under Transmittal No. 446)

Issued: May 21, 2004

Effective: June 5, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(B) Service Components (Cont'd)(3) Interim Inter-switch Signaling Protocol (IISP) Port with Access Line Connection (T)

IISP Port with Access Line Connection, which is similar to the Full User Network Interface (UNI) described in (1) preceding, allows network-to-network connectivity through the use of Permanent Virtual Circuits (PVCs) and/or Switched Virtual Circuits (SVCs). The IISP interface specifies how a Telephone Company ATM CRS switch sends and receives data from an Interexchange Carrier's or other customer's ATM CRS network. The IISP connection consists of a 1.544 Mbps (DS1), a 45 Mbps (DS3), a 155.52 Mbps (OC3c), or a 622 Mbps (OC12c) digital facility from the IC's network to the Telephone Company's ATM CRS switch and the appropriate port interface connection. The monthly rates for the IISP Port With Access Line Connection interfaces apply only to the Tier 1 mileage band (0 to 5 miles). (T)

The IISP Port With Access Line Connection, like the UNI Port With Access Line Connection, includes Protected and Unprotected OC3c and Protected Diverse OC12c SONET IISPs. ATM OC3c and OC12c Protected SONET IISP connections are provisioned over SONET as a survivable service with an alternate (not diverse) facility. ATM Protected Diverse OC3c and OC12c SONET IISP connections are provisioned over SONET as a survivable service with an alternate diverse path between the local serving office and the Customer premises. Unprotected fiber is one type of OC3c ATM IISP that is provisioned using an optical fiber interface with no alternate facility. DS3, OC3c, OC12c and other interfaces, both electrical and optical, are supported and defined to the technical specifications set forth in 16.6.1(B) (5) following.

(4) Port Only Connections (T)

Port Only connections can be established as User to Network Interface (UNI) arrangement or Interim Inter-switch Signaling Protocol (IISP). UNI and IISP Port Only connection provides an ATM Cell Relay Network connection based on the port connection speed of DS1, DS3, OC3c and OC12c. The ATM port speed will be consistent with the channel speed of the access channel. The actual throughput of Customer traffic cannot exceed the bandwidth of the access channel and port speed.

(Issued under Transmittal No. 446)

Issued: May 21, 2004

Effective: June 5, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(B) Service Components (Cont'd)(4) Port Only Connections (Cont'd)

(T)

UNI Port Only connections are available as either Incremental or Full. IISP Port Only Connections are available as Full. This refers to the bandwidth that is required to provision PVCs on the port. Incremental ports come with no bandwidth and bandwidth is purchased in increments based on the customer bandwidth requirements. Full ports come with all bandwidth included up to the maximum rate of the port. Each port can accommodate multiple PVCs or SVCs depending on the bandwidth purchased. UNI or IISP Port Only is available on a one-year, two-year, three-year and five-year term.

Customers may access Port Only connections via Company-provided digital access facilities or via facilities provided by another carrier. When access facilities are provided by Company, the associated regulations, rates and charges under the appropriate Company Tariff shall apply in addition to the regulations, rates and charges associated with ATM CRS. Interconnection charges to connect access line services provided by Company or another carrier may apply and will be billed separately. Any special construction or nonstandard charges assessed by the carrier supplying the access facilities will be the responsibility of Customer.

UNI Port Only connections also provide an ATM Cell Relay Network connection for a Collocated Interconnection Service (CIS) Cross-Connect Service or SPOT Bay Frame and Terminations service in a wire center. The respective CIS Cross-Connect service is described in Section 19. (See Note below.)

Note: See Section 19 for additional information.

(Issued under Transmittal No. 446)

Issued: May 21, 2004

Effective: June 5, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(B) Service Components (Cont'd)(5) Permanent Virtual Circuit (PVC)

(T)

The PVC defines a virtual connection across a UNI or IISP between the customer premises and the Telephone Company's ATM hub. Each UNI or IISP requires at least one PVC in order for customer traffic to traverse the network. Each ATM cell carries a unique tag which identifies that ATM cell as belonging to a particular PVC. A PVC is a logical channel connecting two or more customer designated premises with virtual connections through a Telephone Company provided ATM CRS switch(es). When XA ATM-CRS is used to access IP-VPN Service, a PVC is a logical channel connecting a customer designated premises through a Telephone Company provided ATM CRS switch to the IP-VPN network. The PVCs may be provided on a point-to-point or point-to-multipoint basis. When a PVC is provided as a point-to-point virtual connection, transmission is bi-directional allowing for ATM cells to be transmitted or received over the same PVC. For point-to-multipoint virtual connections, transmission is provided as transmit only. The virtual connection is set up by the Telephone Company based on information contained on a service order rather than by dial-up signaling.

(Issued under Transmittal No. 446)

Issued: May 21, 2004

Effective: June 5, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

## (B) Service Components (Cont'd)

## (5) Permanent Virtual Circuit (PVC) (Cont'd)

PVCs consist of two types: Virtual Channel Connections (VCCs) and Virtual Path Connections (VPCs). A VCC is a type of PVC with independent identity and defined service parameters that are provisioned via service order, and cannot be altered by the customer without additional service order activity. A VPC is a type of PVC with defined service parameters that is provisioned via service order. Customers may provision their own virtual channels within the VPC, provided that the sum of the service parameters of all of the virtual channels does not exceed the aggregate service parameters of the VPC.

## (6) Switched Virtual Circuit (SVC)

Switched Virtual Circuits are similar in structure to PVCs. SVCs (C)  
also consist of VCCs and VPCs, but SVCs are provisioned on demand (C)  
by customer premises equipment that signals the ATM cell relay  
network to set up and tear down logical connections. The network  
will respond to these requests by provisioning a virtual connection  
across the network based on the class of service parameters  
requested, provided that sufficient network resources are available  
to establish the connection. Each UNI or IISP that is SVC signal  
enabled will be provided with a SVC ICD (International Code  
Designator) prefix that will uniquely identify the UNI or IISP.  
The customer must use this Telephone Company assigned prefix when  
requesting SVC virtual connections across the Telephone Company  
Cell Relay Network. Each Constant Bit Rate and Variable Bit Rate  
SVC will be limited to a maximum Peak Cell Rate of 20 Mbps and a  
maximum Sustained Cell Rate of 20 Mbps.

Closed User Group (CUG) capability is a feature associated with  
SVCs. A CUG provides the ability to contain SVC calls between  
certain User Network Interfaces (UNIs) or IISPs. A CUG  
functionally groups UNIs/IISPs into logical associations and allows  
calling privileges to be specified network wide. A CUG provides a  
network-wide mechanism for access control. CUGs provide a logical  
grouping of UNIs/IISPs, creating an SVC community of interest.

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(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(B) Service Components (Cont'd)(7) Northern Corridor Option

(S) (x)

The Northern Corridor Option provides UNI and IISP subscribers (UNI or IISP Port With Access Line Connection and UNI or IISP Port Only Connection subscribers) in the New Jersey - New York Corridor the ability to connect between locations in Newark or Jersey City Wire Centers and New York, New York as specified in Section 14 preceding.

(8) Southern Corridor Option

The Southern Corridor Option provides UNI and IISP subscribers (UNI or IISP Port With Access Line Connection and UNI or IISP Port Only Connection subscribers) in the New Jersey - Pennsylvania Corridor the ability to connect between locations in Delaware Valley New Jersey Wire Centers and Philadelphia, Pennsylvania Wire Centers as defined in Section 14 preceding.

(S) (x)

(9) Effective Bandwidth

(T)

Effective bandwidth is the bandwidth reserved for each logical connection (Permanent Virtual Circuit or Switched Virtual Circuit) that is set up across a UNI or IISP. It is based on the Peak Cell Rate, Sustained Cell Rate, Maximum Burst Size, and the class of service parameters selected, i.e., Constant Bit Rate (CBR), VBRrt (Variable Bit Rate real time), VBRnrt (Variable Bit Rate non-real time), or UBR (Unspecified Bit Rate). The total effective bandwidth of all the logical connections on a UNI or IISP cannot exceed the total bandwidth available on the UNI or IISP. Effective bandwidth prices do not vary by class of service level selected. However, effective bandwidth is consumed in varying degrees based on the class of service parameters selected. The higher the class of service, the more bandwidth will be reserved. A CBR PVC with the same Peak Cell Rate as a VBR PVC will reserve more effective bandwidth.

(x) Reissued material filed in Transmittal No. 442, and scheduled to become effective June 1, 2004.

(Issued under Transmittal No. 446)

Issued: May 21, 2004

Effective: June 5, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(C) Technical Specifications

The technical specifications for ATM Cell Relay Service are delineated in Technical References TR-NWT-001112, GR-1110-CORE, GR-1248-CORE, and SR-3330.

The technical specifications for DS1 and DS3 signals are delineated in TR-INS-000342.

The technical specifications for OC3c and OC12c signals are delineated in GR-253-CORE, Issue 2. (C)

The technical specifications for IISP interfaces are delineated in ATM Forum Interim Inter-switch Signaling Protocol, af-pnni-0026.000.

The technical specifications for UNIs are delineated in ATM Forum ATM User Network Interface Specifications V3.0, af-uni-0010.001, and V3.1, af-uni-0010.002. Interface specifications for customer provided ATM compatible premises equipment or devices must also be in accordance with the specifications defined in these documents.

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(Issued under Transmittal No. 242)

Issued: September 11, 2002

Effective: September 26, 2002

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(D) Provision of Service

ATM Cell Relay Service includes:

- (1) At least one UNI Port with Access Line or Port Only, two UNI IMA Port With Access Lines, or one IISP Port with Access Line or Port Only from an Interexchange Carrier or other customer's network to the C.O. based ATM CRS switch, which has maximum nominal capacity for either DS1 (1.544Mbps), DS3 (45 Mbps), OC3c (155 Mbps), or OC12c (622 Mbps). The OC3c and OC12c UNIs are provisioned over either protected or unprotected SONET facilities. The protected OC3c and OC12c SONET facilities provide a backup facility that automatically switches in the event of a failure on the primary facility. The unprotected OC3c SONET facilities do not have an alternate facility. (C)
- (2) Unlimited usage on purchased bandwidth. (C)
- (3) Incremental UNIs must have at least one increment of effective bandwidth (either PVC or SVC) in order for traffic to traverse the network. The DS1, DS3, OC3c, and OC12c Full UNIs are equipped with the full effective bandwidth.
- (4) Either one or more Permanent Virtual Circuits. When PVC bandwidth is purchased, one or more PVCs must be selected for customer traffic to traverse the network.
- (5) Two types of Permanent Virtual Circuits, (i) Virtual Channel Connections and (ii) Virtual Path Connections, which support the following Classes of Service:
  - (a) Constant Bit Rate (CBR)
  - (b) Variable Bit Rate real time (VBRrt)
  - (c) Variable Bit Rate non-real time (VBRnrt)
  - (d) Unspecified Bit Rate (UBR)

(E) Tier Structure for Local Serving Offices

Locations (wire centers) that provide ATM Cell Relay Service have been designated as ATM CRS hubs. Each local serving office has been placed in a Tier, either 1, 2 or 3, based on its location relative to the closest ATM CRS hub.

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(Issued under Transmittal No. 446)

Issued: May 21, 2004

Effective: June 5, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(F) Service Functionality (T)

The basic ATM Cell Relay Service functionality consists of transporting 53-byte cells of information from the customer location to a Telephone Company ATM hub over a UNI or IISP. The traffic is routed in the switch to another UNI or IISP, or other suitable network connection.

(G) Class of Service Parameters (T)

## (1) Constant Bit Rate (CBR)

## (a) Peak/Sustained Cell Rate:

Customer specified in increments of 64 Kilobits per second up to the maximum speed of the UNI or IISP.

## (b) Non-conforming cells:

Discarded

## (c) Cell Delay Variation Tolerance (CDVT):

DS1 = 600 microseconds

DS3 = 600 microseconds

OC3c = 600 microseconds

OC12c = 600 microseconds

(N)

## (2) Variable Bit Rate real time/non-real time

## (a) Sustained Cell Rate (SCR):

Customer specified in increments of 64 Kilobits per second up to the maximum speed of the UNI or IISP.

## (b) Peak Cell Rate (PCR):

Customer selectable in increments of 64 kbps up to line rate. Default is 200% of SCR for PVCs. (The ratio of PCR to SCR will be signaled by the customer premises equipment for SVCs. Therefore there is no default value.)

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(Issued under Transmittal No. 242)

Issued: September 11, 2002

Effective: September 26, 2002

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(G) Class of Service Parameters (Cont'd) (T)

## (2) Variable Bit Rate real time/non-real time (Cont'd)

## (c) Non-conforming cells:

Discarded

## (d) Cell Delay Variation Tolerance (CDVT):

DS1 = 600 microseconds

DS3 = 600 microseconds

OC3c = 600 microseconds (Z)

OC12c = 600 microseconds (N)

## (e) Maximum Burst Size (MBS):

Customer selectable

Default is 100 cells on PVCs

As signaled on SVCs

## (3) Unspecified Bit Rate

## (a) No Class of Service descriptors

## (b) Best effort service

## (c) Cells exceeding network capacity are discarded

(Issued under Transmittal No. 242)

Issued: September 11, 2002

Effective: September 26, 2002

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005(T)  
(T)

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(H) Special Conditions (T)

- (1) ATM CRS is available where facilities and conditions permit in accordance with the regulations specified in Sections 2 and 5 preceding. For locations where the customer requests ATM CRS and digital or SONET facilities are not available, special construction charges may apply. (C)  
(M)  
(C)  
(C)

## (2) Maintenance Window (T)

To meet customers' requirements, occasional network upgrades must be performed. These network upgrades are needed to provide improved performance and new features. Generally these upgrades will be performed between the hours of 11 p.m. and 8 a.m. Network upgrades are planned to provide customers reasonable and timely notification in order to minimize any impact on customer service.

(I) Responsibility of the Customer (N)

The customer must provide the necessary premises equipment or ATM device capable of interfacing with the Telephone Company's Cell Relay Service. The customer-provided equipment or ATM device must conform to the technical specifications set forth in 16.6.1(B) (5) preceding. (M)  
|  
(M)  
(T)

(J) Responsibility of the Company (N)

ATM CRS is supported by the Telephone Company's Single Point of Contact (SPOC) center that provides continuous support for ATM CRS twenty-four hours per day, seven days per week (24x7) with the ability to manage Telephone Company-provided ATM CRS services as a single network. The SPOC performs maintenance, trouble resolution and network management functions on a 24x7 basis. Service order processing and network installation functions are performed only during normal business hours. (M)  
|  
(M)  
(C)  
(M)  
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(M)

Certain material previously found on this page can now be found on Original Pages 16-88.1 through 16-88.5. Certain material on this page formerly appeared on 1<sup>st</sup> Revised Pages 16-79 and 16-90.

(Issued under Transmittal No. 383)

Issued: November 21, 2003

Effective: December 6, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

## (K) Application of Rates and Charges (T)

## (1) Rate Elements

The following rate elements are applicable to ATM CRS:

- User Network Interfaces (UNIs) Port With Access Line Connection
- UNI Inverse Multiplexing ATM (IMA) Port With Access Line Connection
- User Network Interfaces (UNIs) Port Only Connection
- Interim Inter-Switch Signaling Protocol (IISP) Interfaces, Port With Access Line Connection
- Interim Inter-Switch Signaling Protocol (IISP) Interface, Port Only Connection
- Permanent Virtual Circuits (PVCs)
- Switched Virtual Circuits (SVCs)
- Effective Bandwidth for Incremental UNIs or IISPs
- Closed User Groups (CUG)
- Administrative Charge

## (a) User Network Interfaces (UNIs) Port With Access Line Connection

A monthly rate applies on a per Port With Access Line Connection basis, based on the speed (i.e., DS1, DS3, OC3c or OC12c) and/or type (i.e., Full or Incremental, SONET, Protected or Protected Diverse) of the access connection. UNI Port With Access Line Connection is offered under one-year, two-year, three-year or five-year Extended Service Plans (ESP). No nonrecurring charges apply.

## (b) UNI Inverse Multiplexing ATM (IMA) Port With Access Line Connection

A monthly rate applies on a per DS1 basis for each sequential DS1 ordered up to the desired bandwidth (i.e., 3 Mbps, 4.5 Mbps, 6 Mbps, 7.5 Mbps or 9 Mbps). IMA is offered as a one-year, two-year, three-year or five-year ESP. DS1s within an IMA group added subsequent to the initial installation of the first two DS1s will have their own term period. No nonrecurring charges apply.

## (c) User Network Interfaces (UNIs) Port Only Connection

A monthly rate applies on a per Port Only basis, based on the speed (i.e., DS1, DS3, OC3c or OC12c) and/or type (i.e., Full or Incremental) of the port only connection. UNI Port Only is offered under one-year, two-year, three-year or five-year Extended Service Plans (ESP). No nonrecurring charges apply.

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(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

## (K) Application of Rates and Charges (Cont'd) (T)

## (1) Rate Elements (Cont'd)

(d) Interim Inter-Switch Signaling Protocol (IISP) Interfaces,  
Port With Access Line Connection

A monthly rate applies on a per Port With Access Line Connection basis, based on the speed (i.e., DS1, DS3, OC3c or OC12c) and/or type (i.e., Full or Incremental, SONET) of the access connection. IISP Port With Access Line Connection is only available in Tier 1 and is offered under one-year, two-year, three-year or five-year Extended Service Plans (ESP). No nonrecurring charges apply.

(e) Interim Inter-Switch Signaling Protocol (IISP) Interfaces,  
Port Only Connection

A monthly rate applies on a per Port Only Connection basis, based on the speed (i.e., DS1, DS3, OC3c or OC12c) and/or type (i.e., Full or Incremental) of the port only connection. IISP Port Only Connection is only available in Tier 1 and is offered under one-year, two-year, three-year or five-year Extended Service Plans (ESP). No nonrecurring charges apply.

## (f) Permanent Virtual Circuit (PVCs)

A nonrecurring charge applies per order for Virtual Channel Connection (VCC) or Virtual Path Connection (VPC). PVCs are ordered per UNI or IISP. If multiple UNIs or IISPs are involved, a nonrecurring charge will apply to each UNI or IISP Port on which the virtual connections will reside. The nonrecurring charge does not apply when PVCs are installed at the same time as the respective UNIs or IISPs.

(T)

## (g) Switched Virtual Circuits (SVCs)

A nonrecurring charge applies per order for VCC or VPC. SVCs are ordered per UNI or IISP. If multiple UNIs or IISPs are involved, a nonrecurring charge will apply to each UNI or IISP Port on which the virtual connections will reside. The nonrecurring charge does not apply when SVCs are installed at the same time as the respective UNIs or IISPs.

(N)

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(N)

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

## (K) Application of Rates and Charges (Cont'd) (T)

## (1) Rate Elements (Cont'd)

## (h) Effective Bandwidth for Incremental UNIs (T)

A monthly rate applies for incremental UNIs for CBR or VBR PVC and SVC bandwidth at 5 Mbps for DS3 or OC3c and at 15 Mbps for OC12c. A monthly rate also applies for incremental UNIs for UBR PVC and SVC bandwidth for DS3, OC3c and OC12c. No nonrecurring charges apply.

The monthly rate for PVC and/or SVC Unspecified Bit Rate bandwidth will be waived when the combined Variable Bit Rate and Constant Bit Rate effective bandwidth purchased (either SVC or PVC or any combination) is equal to at least 50% of the effective bandwidth capacity of the UNI. When UBR bandwidth is made available, it is available for both PVCs and SVCs. No nonrecurring charges apply.

Incremental UNIs with UBR PVC of zero bandwidth are provided at no charge to the customer only when ATM Cell Relay Service is used to transport Telephone Company-provided Digital Subscriber Line (DSL) service as set forth in other sections of this Tariff.

## (i) Closed User Group (CUG) (T)

A nonrecurring charge applies per order and per UNI/IISP for each CUG established and for each subsequent CUG member added to a CUG. The nonrecurring charge does not apply when a CUG is installed at the same time as the respective UNI or IISP.

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(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005





## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(K) Application of Rates and Charges (Cont'd) (T)(1) Rate Elements (Cont'd)(j) Northern and Southern Corridor Options (T)

The Northern Corridor Option and the Southern Corridor Option are available to customers at no charge.

(k) Administrative Charge (T)

A nonrecurring charge applies (per order, per UNI or IISP) when a customer initiates a change to one or more of the following: UNI or IISP bandwidth, PVCs, class of service parameters, and/or other service parameters that do not require changes in physical facilities and that can be provisioned by the Company's without the dispatch of a technician to the customer location. For each service order issued, the charge will be one Administrative Charge regardless of the number of changes made. The Administrative Charge does not apply for those items ordered on the same service order with the installation of a UNI or IISP.

(2) Minimum Period

The minimum period for ATM Cell Relay Service is 1 month.

(3) Extended Service Plans

The ATM CRS UNI Port With Access Line Connection, UNI IMA Port With Access Line Connection, UNI Port Only, IISP Port and Access, and IISP Port Only rate elements are available under an ESP.

Term commitments of one-, two-, three- and five- years are available to ATM CRS UNI Port With Access Line Connection, UNI Port Only, IISP Port With Access Line Connection and IISP Port Only. Customers and term commitments of one-, two-, three- and five-years are available to UNI IMA Port With Access Line Connections at the applicable rates set forth in Section 16.6.1 following, regardless of when they subscribe to an ESP arrangement.

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(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(K) Application of Rates and Charges (Cont'd)

(T)

(4) Termination Liability

In the event ATM CRS is terminated by the customer prior to completion of the initial term commitment period, Termination Liability charges, as set forth following, will apply.

In the event the service is terminated by the customer prior to completion of the current term commitment period, the customer shall be liable for an early termination charge, except as noted below. For customers entering into Extended Service Plans after December 6, 2003, the amount of the early termination charge will be 25% of the monthly recurring charge(s) (MRC) for the remainder of the term. For example:

$25\% \times \text{MRC} \times \# \text{ of Lines/Channels/Paths} \times \text{Remainder of Term} =$   
Termination Charge

Early termination charges will apply only to those rate elements under a term commitment period. If any rates for the service are increased during the term period, exclusive of any increase due to local, state or federal fees, taxes or surcharges, the customer may terminate the service without incurring an early termination charge.

For customers who entered into Extended Service Plans prior to December 6, 2003, the amount of the early termination charge will be the lesser of:

1.  $25\% \times \text{MRC} \times \# \text{ of Lines/Channels/Paths} \times \text{Remainder of Term} =$  Termination Charge
2. As an alternative for the five year term, the liability is equal to the total number of months completed in the term period times the difference between the three year and five year rate. For example, if 48 months had elapsed from the time the service was in effect, and the five year plan had initially been selected, the alternative termination liability would be calculated using the following formula:

Termination Liability =  $48 \times (\text{the three year rate minus the five year rate})$

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(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(K) Application of Rates and Charges (Cont'd) (T)(4) Termination Liability (Cont'd)

For customers of record prior to December 6, 2003, if rates increase during the plan period, the customer may discontinue service without termination liability within 120 days of the rate increase. If the service is continued after the 120 days, all current plan terms and conditions apply, including termination liability.

## End of Term Options

Prior to the end of the term commitment period, the customer may select one of the following options, to be effect at the end of the term:

Renew for the same commitment period;  
Commit to a new term period of shorter or longer duration;  
Arrange for a change of service; or  
Discontinue service.

In the event the customer does not select one of the above options, the customer will be converted to the shortest-term period available under tariff (i.e., 1-year, etc.) for the same service, and will be subject to the applicable term commitment, if any, unless the customer terminates the service within sixty (60) days of the conversion date.

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(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(K) Application of Rates and Charges (Cont'd) (T)

- (5) Early termination charges will not be assessed under the following circumstances:

Customer moves existing service either to a new location within the same address and/or same building (inside move) or to a new location (outside move) and maintains that service for the remainder of the term;

Customer attempts to move the existing service to a new location within the company's service area, but the service is unavailable;

Customer converts to a new term commitment plan for the same service before the current term commitment expires and the value of the new term commitment is equal to or greater than the remaining value of the current term commitment; or

Customer changes to another service or upgrades service to a higher speed or capacity under a term commitment, provided the following conditions are met:

The value of the new term commitment is equal to or greater than the remaining value of the current term commitment,

Both the existing and the new services are provided solely by the company, and

The order to discontinue the existing service and the order for the new or upgraded service are received by the company at the same time.

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(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)(K) Application of Rates and Charges (Cont'd) (T)(6) Moves

When a customer requests a move or relocation of the UNI or IISP, the move or relocation will be treated as a termination of the existing service and the establishment of a new service. Termination liability charges may be waived in certain conditions as specified in (5) preceding.

(7) Special Facilities Routing

A customer may request that the facilities used to provide ATM Cell Relay Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Enhanced Access Diversity, Alternate Serving Wire Center, Avoidance, Diversity and Cable-Only) are set forth in Section 11 preceding.

(8) Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test, at the time of installation. Acceptance tests will include tests for the parameters applicable to the service as specified in the order for service.

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(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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ACCESS SERVICE

16. Packet Data Services (Cont'd)

16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)

16.6.1 ATM Cell Relay Service (Cont'd)

(K) Application of Rates and Charges (Cont'd) (T)

(9) Access Order Provisions

ATM Cell Relay Service is ordered under the Access Order provisions set forth in Section 5 preceding. Also included in that section are other charges that may be associated with ordering ATM Cell Relay Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

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(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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ACCESS SERVICE

16. Packet Data Services (Cont'd)

16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)

16.6.1 ATM Cell Relay Service (Cont'd)

(D)

(D)

(Issued under Transmittal No. 383)

Issued: November 21, 2003

Effective: December 6, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection

(a) <u>One-Year ESP</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
- DS1 Full, each			
Tier 1 (0 to 5 miles)	UUZA1	\$650.00	None
Tier 2 (Over 5 to 25 miles)	UUZA2	650.00	None
Tier 3 (Over 25 to 50 miles)	UUZA3	650.00	None
- DS3 Full, each			
Tier 1 (0 to 5 miles)	UUZB1	2,890.00	None
Tier 2 (Over 5 to 25 miles)	UUZB2	3,955.00	None
Tier 3 (Over 25 to 50 miles)	UUZB3	6,640.00	None
- DS3 Incremental, each			
Tier 1 (0 to 5 miles)	NLSB1	2,250.00	None
Tier 2 (Over 5 to 25 miles)	NLSB2	3,315.00	None
Tier 3 (Over 25 to 50 miles)	NLSB3	6,000.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(a) <u>One-Year ESP</u> (Cont'd)	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
OC3c SONET - Full			
- Protected, each			
Tier 1 (0 to 5 miles)	UUZC1	\$5,390.00	None
Tier 2 (Over 5 to 25 miles)	UUZC2	7,325.00	None
Tier 3 (Over 25 to 50 miles)	UUZC3	9,890.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	UUZBD	\$5,840.00	None
Tier 2 (Over 5 to 25 miles)	UUZD2	7,775.00	None
Tier 3 (Over 25 to 50 miles)	UUZD3	10,340.00	None
- Unprotected, each			
Tier 1 (0 to 5 miles)	UUZS1	\$4,890.00	None
Tier 2 (Over 5 to 25 miles)	UUZS2	6,700.00	None
Tier 3 (Over 25 to 50 miles)	UUZS3	9,390.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(a) <u>One-Year ESP</u> (Cont'd)	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
OC3c SONET - Incremental			
- Protected, each			
Tier 1 (0 to 5 miles)	NLSC1	\$3,250.00	None
Tier 2 (Over 5 to 25 Miles)	NLSC2	5,190.00	None
Tier 3 (Over 25 to 50 Miles)	NLSC3	7,750.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	NLSD1	\$3,700.00	None
Tier 2 (Over 5 to 25 Miles)	NLSD2	5,640.00	None
Tier 3 (Over 25 to 50 Miles)	NLSD3	8,200.00	None
- Unprotected, each			
Tier 1 (0 to 5 miles)	NLSS1	\$2,750.00	None
Tier 2 (Over 5 to 25 Miles)	NLSS2	4,565.00	None
Tier 3 (Over 25 to 50 Miles)	NLSS3	7,250.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(a) <u>One-Year ESP</u> (Cont'd)	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
OC12c SONET - Full			
- Protected, each			
Tier 1 (0 to 5 miles)	UUZ41	\$15,935.00	None
Tier 2 (Over 5 to 25 Miles)	UUZ42	21,741.00	None
Tier 3 (Over 25 to 50 Miles)	UUZ43	29,435.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	UUZ51	17,229.00	None
Tier 2 (Over 5 to 25 Miles)	UUZ52	23,035.00	None
Tier 3 (Over 25 to 50 Miles)	UUZ53	30,729.00	None
OC12c SONET - Incremental			
- Protected, each			
Tier 1 (0 to 5 miles)	NLS61	9,750.00	None
Tier 2 (Over 5 to 25 Miles)	NLS62	15,570.00	None
Tier 3 (Over 25 to 50 Miles)	NLS63	23,250.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	NLS71	11,053.00	None
Tier 2 (Over 5 to 25 Miles)	NLS72	16,858.00	None
Tier 3 (Over 25 to 50 Miles)	NLS73	24,553.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(b) <u>Two-Year ESP</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
- DS1 Full, each			
Tier 1 (0 to 5 miles)	UUZA1	\$618.00	None
Tier 2 (Over 5 to 25 miles)	UUZA2	618.00	None
Tier 3 (Over 25 to 50 miles)	UUZA3	618.00	None
- DS3 Full, each			
Tier 1 (0 to 5 miles)	UUZB1	2,746.00	None
Tier 2 (Over 5 to 25 miles)	UUZB2	3,757.00	None
Tier 3 (Over 25 to 50 miles)	UUZB3	6,308.00	None
- DS3 Incremental, each			
Tier 1 (0 to 5 miles)	NLSB1	2,138.00	None
Tier 2 (Over 5 to 25 miles)	NLSB2	3,149.00	None
Tier 3 (Over 25 to 50 miles)	NLSB3	5,700.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(b) <u>Two-Year ESP</u> (Cont'd)	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
OC3c SONET - Full			
- Protected, each			
Tier 1 (0 to 5 miles)	UUZC1	\$5,121.00	None
Tier 2 (Over 5 to 25 miles)	UUZC2	6,959.00	None
Tier 3 (Over 25 to 50 miles)	UUZC3	9,396.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	UUZBD	\$5,548.00	None
Tier 2 (Over 5 to 25 miles)	UUZD2	7,386.00	None
Tier 3 (Over 25 to 50 miles)	UUZD3	9,823.00	None
- Unprotected, each			
Tier 1 (0 to 5 miles)	UUZS1	\$4,646.00	None
Tier 2 (Over 5 to 25 miles)	UUZS2	6,365.00	None
Tier 3 (Over 25 to 50 miles)	UUZS3	8,921.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(b) <u>Two-Year ESP</u> (Cont'd)	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
OC3c SONET - Incremental			
- Protected, each			
Tier 1 (0 to 5 miles)	NLSC1	\$3,088.00	None
Tier 2 (Over 5 to 25 Miles)	NLSC2	4,931.00	None
Tier 3 (Over 25 to 50 Miles)	NLSC3	7,363.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	NLSD1	\$3,515.00	None
Tier 2 (Over 5 to 25 Miles)	NLSD2	5,358.00	None
Tier 3 (Over 25 to 50 Miles)	NLSD3	7,790.00	None
- Unprotected, each			
Tier 1 (0 to 5 miles)	NLSS1	\$2,613.00	None
Tier 2 (Over 5 to 25 Miles)	NLSS2	4,337.00	None
Tier 3 (Over 25 to 50 Miles)	NLSS3	6,888.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(b) <u>Two-Year ESP</u> (Cont'd)	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
OC12c SONET - Full			
- Protected, each			
Tier 1 (0 to 5 miles)	UUZ41	\$15,138.00	None
Tier 2 (Over 5 to 25 Miles)	UUZ42	20,654.00	None
Tier 3 (Over 25 to 50 Miles)	UUZ43	27,963.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	UUZ51	16,368.00	None
Tier 2 (Over 5 to 25 Miles)	UUZ52	21,883.00	None
Tier 3 (Over 25 to 50 Miles)	UUZ53	29,193.00	None
OC12c SONET - Incremental			
- Protected, each			
Tier 1 (0 to 5 miles)	NLS61	9,263.00	None
Tier 2 (Over 5 to 25 Miles)	NLS62	14,792.00	None
Tier 3 (Over 25 to 50 Miles)	NLS63	22,088.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	NLS71	10,500.00	None
Tier 2 (Over 5 to 25 Miles)	NLS72	16,015.00	None
Tier 3 (Over 25 to 50 Miles)	NLS73	23,325.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(c) <u>Three Year ESP</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
- DS1 Full, each			
Tier 1 (0 to 5 miles)	UUZA1	\$565.00	None
Tier 2 (Over 5 to 25 miles)	UUZA2	565.00	None
Tier 3 (Over 25 to 50 miles)	UUZA3	565.00	None
- DS3 Full, each			
Tier 1 (0 to 5 miles)	UUZB1	2,460.00	None
Tier 2 (Over 5 to 25 miles)	UUZB2	3,360.00	None
Tier 3 (Over 25 to 50 miles)	UUZB3	5,645.00	None
- DS3 Incremental, each			
Tier 1 (0 to 5 miles)	NLSB1	1,915.00	None
Tier 2 (Over 5 to 25 miles)	NLSB2	2,815.00	None
Tier 3 (Over 25 to 50 miles)	NLSB3	5,100.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(c) <u>Three Year ESP</u> (Cont'd)	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
OC3c SONET - Full			
- Protected, each			
Tier 1 (0 to 5 miles)	UUZC1	\$4,580.00	None
Tier 2 (Over 5 to 25 Miles)	UUZC2	6,225.00	None
Tier 3 (Over 25 to 50 Miles)	UUZC3	8,405.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	UUZD1	\$4,965.00	None
Tier 2 (Over 5 to 25 Miles)	UUZD2	6,610.00	None
Tier 3 (Over 25 to 50 Miles)	UUZD3	8,790.00	None
- Unprotected, each			
Tier 1 (0 to 5 miles)	UUZS1	\$4,155.00	None
Tier 2 (Over 5 to 25 Miles)	UUZS2	5,695.00	None
Tier 3 (Over 25 to 50 Miles)	UUZS3	7,980.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(c) <u>Three Year ESP</u> (Cont'd)	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
OC3c SONET - Incremental			
- Protected, each			
Tier 1 (0 to 5 miles)	NLSC1	\$2,765.00	None
Tier 2 (Over 5 to 25 Miles)	NLSC2	4,410.00	None
Tier 3 (Over 25 to 50 Miles)	NLSC3	6,590.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	NLSD1	\$3,145.00	None
Tier 2 (Over 5 to 25 Miles)	NLSD2	4,795.00	None
Tier 3 (Over 25 to 50 Miles)	NLSD3	6,970.00	None
- Unprotected, each			
Tier 1 (0 to 5 miles)	NLSS1	\$2,340.00	None
Tier 2 (Over 5 to 25 Miles)	NLSS2	3,875.00	None
Tier 3 (Over 25 to 50 Miles)	NLSS3	6,165.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(c) <u>Three Year ESP</u> (Cont'd)	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
OC12c SONET - Full			
- Protected, each			
Tier 1 (0 to 5 miles)	UU241	\$13,545.00	None
Tier 2 (Over 5 to 25 Miles)	UU242	18,480.00	None
Tier 3 (Over 25 to 50 Miles)	UU243	25,020.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	UU251	14,645.00	None
Tier 2 (Over 5 to 25 Miles)	UU252	19,580.00	None
Tier 3 (Over 25 to 50 Miles)	UU253	26,120.00	None
OC12c SONET - Incremental			
- Protected, each			
Tier 1 (0 to 5 miles)	NL561	8,295.00	None
Tier 2 (Over 5 to 25 Miles)	NL562	13,230.00	None
Tier 3 (Over 25 to 50 Miles)	NL563	19,770.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	NL571	9,395.00	None
Tier 2 (Over 5 to 25 Miles)	NL572	14,330.00	None
Tier 3 (Over 25 to 50 Miles)	NL573	20,870.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(d) <u>Five Year ESP</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
- DS1 Full, each			
Tier 1 (0 to 5 miles)	UUZA1	\$525.00	None
Tier 2 (Over 5 to 25 miles)	UUZA2	525.00	None
Tier 3 (Over 25 to 50 miles)	UUZA3	525.00	None
- DS3 Full, each			
Tier 1 (0 to 5 miles)	UUZB1	2,315.00	None
Tier 2 (Over 5 to 25 miles)	UUZB2	3,165.00	None
Tier 3 (Over 25 to 50 miles)	UUZB3	5,315.00	None
- DS3 Incremental, each			
Tier 1 (0 to 5 miles)	NLSB1	1,800.00	None
Tier 2 (Over 5 to 25 miles)	NLSB2	2,650.00	None
Tier 3 (Over 25 to 50 miles)	NLSB3	4,800.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(d) <u>Five Year ESP</u> (Cont'd)	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
OC3c SONET - Full			
- Protected, each			
Tier 1 (0 to 5 miles)	UUZC1	\$4,310.00	None
Tier 2 (Over 5 to 25 Miles)	UUZC2	5,860.00	None
Tier 3 (Over 25 to 50 Miles)	UUZC3	7,900.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	UUZD1	\$4,670.00	None
Tier 2 (Over 5 to 25 Miles)	UUZD2	6,220.00	None
Tier 3 (Over 25 to 50 Miles)	UUZD3	8,272.00	None
- Unprotected, each			
Tier 1 (0 to 5 miles)	UUZS1	\$3,910.00	None
Tier 2 (Over 5 to 25 Miles)	UUZS2	5,360.00	None
Tier 3 (Over 25 to 50 Miles)	UUZS3	7,510.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(d) <u>Five Year ESP</u> (Cont'd)	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
OC3c SONET - Incremental			
- Protected, each			
Tier 1 (0 to 5 miles)	NLSC1	\$2,600.00	None
Tier 2 (Over 5 to 25 Miles)	NLSC2	4,150.00	None
Tier 3 (Over 25 to 50 Miles)	NLSC3	6,200.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	NLSD1	\$2,960.00	None
Tier 2 (Over 5 to 25 Miles)	NLSD2	4,510.00	None
Tier 3 (Over 25 to 50 Miles)	NLSD3	6,560.00	None
- Unprotected, each			
Tier 1 (0 to 5 miles)	NLSS1	\$2,200.00	None
Tier 2 (Over 5 to 25 Miles)	NLSS2	3,650.00	None
Tier 3 (Over 25 to 50 Miles)	NLSS3	5,800.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(1) User Network Interfaces (UNIs) Port With Access Line Connection  
(Cont'd)

(d) <u>Five Year ESP</u> (Cont'd)	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
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## OC12c SONET - Full

- Protected, each			
Tier 1 (0 to 5 miles)	UU241	\$12,748.00	None
Tier 2 (Over 5 to 25 Miles)	UU242	17,393.00	None
Tier 3 (Over 25 to 50 Miles)	UU243	23,548.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	UU251	13,784.00	None
Tier 2 (Over 5 to 25 Miles)	UU252	18,428.00	None
Tier 3 (Over 25 to 50 Miles)	UU253	24,583.00	None

## OC12c SONET - Incremental

- Protected, each			
Tier 1 (0 to 5 miles)	NL561	7,800.00	None
Tier 2 (Over 5 to 25 Miles)	NL562	12,450.00	None
Tier 3 (Over 25 to 50 Miles)	NL563	18,600.00	None
- Protected Diverse, each			
Tier 1 (0 to 5 miles)	NL571	8,842.00	None
Tier 2 (Over 5 to 25 Miles)	NL572	13,487.00	None
Tier 3 (Over 25 to 50 Miles)	NL573	19,642.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(2) Interim Inter-Switch Signaling Protocol (IISP) Interfaces Port With Access Line Connection - Tier 1

(a) <u>One-Year ESP</u>		<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(1)	DS1 Full, each	SPXAX	\$ 650.00	None
(2)	DS3 Full, each	SPXBX	2,890.00	None
(3)	OC3c SONET-Full			
	- Protected, each	SPXCX	5,390.00	None
	- Protected Diverse, each	SPXJX	5,840.00	None
	- Unprotected, each	SPXDX	4,890.00	None
(4)	OC12c SONET-Full			
	- Protected, each	S1X01	15,935.00	None
	- Protected Diverse, each	S1XP1	17,229.00	None
(b) <u>Two-Year ESP</u>				
(1)	DS1 Full, each	SPXAX	618.00	None
(2)	DS3 Full, each	SPXBX	2,746.00	None
(3)	OC3c SONET-Full			
	- Protected, each	SPXCX	4,646.00	None
	- Protected Diverse, each	SPXJX	5,121.00	None
	- Unprotected, each	SPXDX	5,548.00	None
(4)	OC12c SONET-Full			
	- Protected, each	S1X01	15,138.00	None
	- Protected Diverse, each	S1XP1	16,368.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(2) Interim Inter-Switch Signaling Protocol (IISP) Interfaces Port With Access Line Connection - Tier 1 (Cont'd)

(c) <u>Three-Year ESP</u>		<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(1)	DS1 Full, each	SPXAX	565.00	None
(2)	DS3 Full, each	SPXBX	2,460.00	None
(3)	OC3c SONET-Full			
	- Protected, each	SPXCX	4,580.00	None
	- Protected Diverse, each	SPXJX	4,964.00	None
	- Unprotected, each	SPXDX	4,155.00	None
(4)	OC12c SONET-Full			
	- Protected, each	S1X01	14,748.00	None
	- Protected Diverse, each	S1XP1	14,645.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(2) Interim Inter-Switch Signaling Protocol (IISP) Interfaces Port With Access Line Connection - Tier 1 (Cont'd)

(d) <u>Five Year ESP</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(1) DS1 Full, each	SPXAX	\$ 525.00	None
(2) DS3 Full, each	SPXBX	2,315.00	None
(3) OC3c SONET-Full			
- Protected, each	SPXCX	4,310.00	None
- Protected Diverse, each	SPXJX	4,672.00	None
- Unprotected, each	SPXDX	3,910.00	None
(4) OC12c SONET-Full			
- Protected, each	S1X01	13,545.00	None
- Protected Diverse, each	S1XP1	13,784.00	None

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## 16. Packet Data Services (Cont'd)

### 16.6.1 ATM Cell Relay Service (Cont'd)

(L) Rates and Charges (Cont'd)

(T)

(a) Permanent Virtual Circuits (PVCs for DS1, DS3, OC3c SONET, or OC12c SONET

Nonrecurring  
Charge\*

## 2. Virtual Path Connections (VPCs)

b. Switched Virtual Circuits (SVCs)

Nonrecurring  
Charge\*

## 2. Virtual Path Connections (VPCs)

$$\begin{array}{c} (N) \\ | \\ | \\ | \\ | \\ | \\ | \\ | \\ | \\ | \\ (N) \end{array}$$

(C)

(C)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(3) Optional Features (Cont'd)

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge*</u>	(T)
(b) <u>Bandwidth for Incremental UNIs - DS3 or OC3c</u>				
CBR or VBR PVC Bandwidth				
- 5 Mbps of Effective Bandwidth	CWVEA	\$ 75.00		
UBR PVC and SVC Bandwidth				
- Bandwidth up to UNI line rate				
DS3	BTRUP	375.00		
OC3c	BTRUP	1,125.00		
CBR or VBR SVC Bandwidth				
- 5 Mbps of Effective Bandwidth	CWVSA	75.00		
(c) <u>Bandwidth for Incremental UNIs - OC12c</u>				
CBR or VBR PVC Bandwidth				
- 15 Mbps of Effective Bandwidth	CWVPV	175.00		
UBR PVC and SVC Bandwidth				
- Bandwidth up to UNI line rate				
OC12c	BTRUV	3,500.00		
CBR or VBR SVC Bandwidth				
- 15 Mbps of Effective Bandwidth	CWVSV	175.00		
(d) <u>Closed User Groups (CUGs) per UNI/IISP</u>				
- Each CUG established	REALK	None	\$75.00	
- Each subsequent CUG member added to a CUG	REALK	None	75.00	

(D)

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(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff FCC No. 20, Communications Services.**

(L) Rates and Charges (Cont'd) (T)

(4) UNI Inverse Multiplexing ATM (IMA) Port with Access Line Connection (T)  
DS1

	One Year <u>Rate</u>	Two Year <u>Rate</u>	Three Year <u>Rate</u>	Five Year <u>Rate</u>
1. First DS1, each (1.536 Mbps total bandwidth)				
Full				
Tier 1 (0 to 5 Miles)	\$669.50	\$636.03	\$581.95	\$540.75
Tier 2 (Over 5 to 25 Miles)	669.50	636.03	581.95	540.75
Tier 3 (Over 25 to 50 Miles)	669.50	636.03	581.95	540.75
2. Second DS1, each (3 Mbps total bandwidth)				
Full				
Tier 1 (0 to 5 Miles)	650.00	617.50	565.00	525.00
Tier 2 (Over 5 to 25 Miles)	650.00	617.50	565.00	525.00
Tier 3 (Over 25 to 50 Miles)	650.00	617.50	565.00	525.00
3. Third DS1, each (4.5 Mbps total bandwidth)				
Full				
Tier 1 (0 to 5 Miles)	611.00	580.45	531.10	493.50
Tier 2 (Over 5 to 25 Miles)	611.00	580.45	531.10	493.50
Tier 3 (Over 25 to 50 Miles)	611.00	580.45	531.10	493.50
4. Fourth DS1, each (6 Mbps total bandwidth)				
Full				
Tier 1 (0 to 5 Miles)	611.00	580.45	531.10	493.50
Tier 2 (Over 5 to 25 Miles)	611.00	580.45	531.10	493.50
Tier 3 (Over 25 to 50 Miles)	611.00	580.45	531.10	493.50

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff FCC No. 20, Communications Services.**

(L) Rates and Charges (Cont'd) (T)

(4) UNI Inverse Multiplexing ATM (IMA) Port with Access Line Connection (T)  
(Cont'd)  
Per DS1

One Year <u>Rate</u>	Two Year <u>Rate</u>	Three Year <u>Rate</u>	Five Year <u>Rate</u>
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## 5. Fifth DS1, each (7.5 Mbps total bandwidth)

## Full

Tier 1 (0 to 5 Miles)	\$611.00	\$580.45	\$531.10	\$493.50
Tier 2 (Over 5 to 25 Miles)	611.00	580.45	531.10	493.50
Tier 3 (Over 25 to 50 Miles)	611.00	580.45	531.10	493.50

## 6. Sixth DS1, each (9 Mbps total bandwidth)

## Full

Tier 1 (0 to 5 Miles)	611.00	580.45	531.10	493.50
Tier 2 (Over 5 to 25 Miles)	611.00	580.45	531.10	493.50
Tier 3 (Over 25 to 50 Miles)	611.00	580.45	531.10	493.50

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(5) UNI Port Only Connection

(a) <u>One-Year ESP</u>	USOC	Monthly Rate	Nonrecurring Charge
DS1, Full	APTTX	\$ 390.00	NONE
DS3, Incremental	APTOX	1,125.00	NONE
DS3, Full	APTUX	1,765.00	NONE
OC3c, Incremental	APTSX	1,625.00	NONE
OC3c, Full	APTVX	3,665.00	NONE
OC12c, Incremental	APTJX	4,875.00	NONE
OC12c, Full	APTKX	10,125.00	NONE
(b) <u>Two-Year ESP</u>			
DS1, Full	APTTX	\$ 371.00	NONE
DS3, Incremental	APTOX	1,069.00	NONE
DS3, Full	APTUX	1,677.00	NONE
OC3c, Incremental	APTSX	1,544.00	NONE
OC3c, Full	APTVX	3,482.00	NONE
OC12c, Incremental	APTJX	4,631.00	NONE
OC12c, Full	APTKX	9,619.00	NONE
(c) <u>Three-Year ESP</u>			
DS1, Full	APTTX	\$ 332.00	NONE
DS3, Incremental	APTOX	956.00	NONE
DS3, Full	APTUX	1,500.00	NONE
OC3c, Incremental	APTSX	1,381.00	NONE
OC3c, Full	APTVX	3,115.00	NONE
OC12c, Incremental	APTJX	4,144.00	NONE
OC12c, Full	APTKX	8,606.00	NONE
(d) <u>Five-Year ESP</u>			
DS1, Full	APTTX	\$ 312.00	NONE
DS3, Incremental	APTOX	900.00	NONE
DS3, Full	APTUX	1,412.00	NONE
OC3c, Incremental	APTSX	1,300.00	NONE
OC3c, Full	APTVX	2,932.00	NONE
OC12c, Incremental	APTJX	3,900.00	NONE
OC12c, Full	APTKX	8,100.00	NONE

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(6) IISP Port Only Connection

(a) <u>One-Year ESP</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
DS1, Full	APTTX	\$ 390.00	NONE
DS3, Full	APTUX	1,765.00	NONE
OC3c, Full	APTVX	3,665.00	NONE
OC12c, Full	APTKX	10,125.00	NONE
 (b) <u>Two-Year ESP</u>			
DS1, Full		\$ 371.00	NONE
DS3, Full		1,677.00	NONE
OC3c, Full		3,482.00	NONE
OC12c, Full	APTLX	9,619.00	NONE

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.6 Exchange Access Asynchronous Transfer Mode Cell Relay Service (XA ATM-CRS) (Cont'd)16.6.1 ATM Cell Relay Service (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Services.**

(L) Rates and Charges (Cont'd)

(T)

(6) IISP Port Only Connection (Cont'd)

(c) <u>Three-Year ESP</u>	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
DS1, Full		\$ 332.00	NONE
DS3, Full		1,500.00	NONE
OC3c, Full		3,115.00	NONE
OC12c, Full	APTLX	8,606.00	NONE
(d) <u>Five-Year ESP</u>			
DS1, Full		\$ 312.00	NONE
DS3, Full		1,412.00	NONE
OC3c, Full		2,932.00	NONE
OC12c, Full	APTLX	8,100.00	NONE

(Issued under Transmittal No. 501)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service

Channel Extension Service provides dedicated point to point broadband data transmission between mainframe computers, between mainframes and peripheral devices and/or between Local Area Networks (LANs) using either a repeater backbone architecture or a dense wave division multiplexing (DWDM) backbone architecture.

16.7.1 Service Description

The repeater backbone architecture can support an ESCON (International Business Machines Corporation's (IBM's) Enterprise Systems CONnection protocol, ESCON® is an IBM registered trademark) or External Time Reference (ETR) interface with a bandwidth of 200 Mbps. The DWDM backbone architecture can support a bandwidth of up to 1.25 Gbps. Channel Extension Service is provided as a two point transmission between customer designated premises.

The ETR centralized time reference unit maintains time of day synchronization. This interface can be used on both the repeater backbone and the DWDM backbone architectures.

Channel Extension Service is provided over two fiber optic strands connecting the network interfaces at the customer designated premises. The repeater backbone architecture provides one ESCON channel over each fiber pair. The DWDM backbone architecture can provide up to fourteen channels over each fiber pair. For path redundancy, DWDM requires a second pair of fiber optic strands and a switch protection module in the equipment.

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(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service (Cont'd)16.7.2 Technical Specifications

The technical specifications for Channel Extension Service using the repeater backbone architecture are described in the following technical publications:

ANSI X3.271 Fiber Channel Single-byte Command Code  
Sets Connection Architecture (SBCON)

Enterprise Systems Architecture/390 ESCON I/O  
Interface, Physical Layer  
SA23-0394-02                      Update: September 1997

ESA/390 ESCON I/O Interface  
SA22-7202-02                      Update: September 1997

ESCON Introduction  
GA23-0383-01                      Update: September 1997

Channel Extension Service using the DWDM backbone architecture is transparent for any data communications protocol and uses the application protocol of the attached device.

The compatible network channel interface code for Channel Extension Service using the repeater backbone architecture is 02FCF.20, and using the DWDM backbone architecture is 02FCF.125.

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(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service (Cont'd)16.7.3 Terms and Conditions

Channel Extension Service is available between a customer's two premises where suitable single mode fiber optic facilities exist to provide such service. Where suitable facilities do not exist to provide the service, the Telephone Company may require that facilities be specially constructed subject to the provisions set forth in Sections 2.1.4, Provision of Services, and 5.1.3, Special Construction, preceding.

Channel Extension Service is provided under a 3 year or 5 year term plan as selected by the customer. Each channel is established with a contract that begins with the date of installation.

Channel Extension Service is provided on a Negotiated Interval as described in Section 5 preceding.

The Company will provide monitoring of the signal to the parameters specified in the technical references.

The Company cannot guarantee the successful performance of this service on the repeater backbone architecture when the distance between premises exceeds 20 kilometers or when transmission loss is greater than 14db. In these instances, a repeater is required. The maximum distance from end to end is approximately 43 kilometers, and the maximum number of repeaters per channel is one. The Telephone Company will determine the wire center in which such repeaters will be utilized.

The Telephone Company cannot guarantee the successful performance of this service on the DWDM backbone architecture when the transmission loss between premises is greater than 17db with Path Protection and 23db without Path Protection. The DWDM architecture does not have regeneration capabilities. The customer's interface will be 13nm.

The customer is responsible for purchasing the appropriate circuits and associated equipment required to provide the Telephone Company with out-of-band monitoring of the network devices. These circuits will connect the equipment located at the customer's premises to a control center location.

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(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service (Cont'd)16.7.3 Terms and Conditions (Cont'd)

Network maintenance and network upgrades for Channel Extension Service are performed between 11:00pm and 8:00am. At times, during the hours of maintenance activity, it will be necessary to place a customer's service in an inactive (out of service) condition. The amount of time that this scheduled out of service condition will exist is called a "maintenance window." The Company will provide notice to the customer prior to the maintenance window. Down time during a maintenance window does not qualify for credit allowance as a service outage.

Moves and relocations of a channel termination are treated as disconnects.

Channel Extension Service is supported by the Telephone Company's Single Point of Contact (SPOC) center, which provides continuous maintenance, trouble resolution, and network monitoring twenty-four hours per day, seven days per week (24x7). Service order processing and network installation functions are performed during normal business hours only.

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(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service (Cont'd)16.7.4 Rate Regulations

The minimum payment period for Channel Extension Service is 3 years.

All rate elements of the same channel are charged in the same term plan.

At the expiration of a term plan, the customer's Channel Extension Service will automatically be renewed at the currently effective 3 year or 5 year rate or the customer may subscribe to a new term plan.

Termination liability charges apply when a service is disconnected prior to the end of the selected term period. Liability is assessed as follows:

For the termination of a 3 year term plan prior to its expiration date, the termination liability is equal to 100% of the applicable monthly charges (channel terminations, mileage and either repeater or redundant path switching) for each month or fraction thereof remaining in the term plan.

For the termination of a 5 year term plan, the termination liability is equal to the difference between the monthly rates for 36 months at the 3-year term rates and the actual number of months the plan has been in effect multiplied by the 5-year monthly rates.

Termination liability is not assessed when the customer elects to change a current plan to a longer term plan. The current plan is cancelled and the new longer term plan is established.

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(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service (Cont'd)16.7.5 Rate Categories

Applicable rate categories with monthly recurring rates are channel termination, channel mileage, and where applicable, repeater or redundant path switching rate elements.

A channel termination rate element applies for each customer designated premises at which the channel is terminated. It includes the interface at each designated premises and the communications path from the premises to the serving wire center. As a two point service, each Channel Extension Service has two channel terminations. An Initial Channel Termination monthly recurring charge applies for the first channel termination at each premises. A Subsequent Channel Termination Charge applies for the second and any subsequent channel terminations added at each premises.

The channel mileage rate category applies for the interoffice transmission facilities between the serving wire centers. It consists of a fixed and a per mile rate element. See Section 7.4.6 preceding for mileage measurement.

The Repeater rate element applies when repeater equipment is required in a wire center to meet the transmission requirements for the service using the repeater backbone architecture. The Initial monthly recurring Repeater Charge applies for the first Channel Extension service requiring a repeater in a serving wire center. The Subsequent Repeater Charge applies to the second and all succeeding services requiring a repeater in the same wire center.

The Redundant Path Switching rate element applies when path redundancy is provided in the network for the service using the DWDM backbone redundancy.

Nonrecurring charges apply to the channel termination rate category. There are Initial and Subsequent charges that are applied on the same basis as the recurring rate element.

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(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service (Cont'd)16.7.6 Rates and Charges

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
(A) <b>Repeater Backbone Architecture</b>				
(1) <b>Channel Terminations</b>				
<u>3 Year</u>				
Per Initial Termination	TZU1X			
N-MSA		\$3,600.00	\$1,500.00	(T)
Price Band 4		3,600.00	1,500.00	(N)
Price Band 5		3,600.00	1,500.00	
Price Band 6		3,600.00	1,500.00	(N)
Per Subsequent Termination	TYH1X			
N-MSA		1,250.00	1,100.00	(T)
Price Band 4		1,250.00	1,100.00	(N)
Price Band 5		1,250.00	1,100.00	
Price Band 6		1,250.00	1,100.00	(N)
<u>5 Year</u>				
Per Initial Termination	TZU4X			
N-MSA		3,250.00	1,500.00	(T)
Price Band 4		3,250.00	1,500.00	(N)
Price Band 5		3,250.00	1,500.00	
Price Band 6		3,250.00	1,500.00	(N)
Per Subsequent Termination	TYH4X			
N-MSA		900.00	1,100.00	(T)
Price Band 4		900.00	1,100.00	(N)
Price Band 5		900.00	1,100.00	
Price Band 6		900.00	1,100.00	(N)

Material formerly shown on this page now appears on Pages 16-110.1 and 16-110.2.

(Issued under Transmittal No. 55)

Issued: June 18, 2001

Effective: July 3, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service (Cont'd)16.7.6 Rates and Charges (Cont'd)(A) **Repeater Backbone Architecture** (Cont'd)

(M)

(2) **Channel Mileage**

		Monthly Rate		
		Fixed	Per Mile	
<u>3 Year</u>	1Y9LS			(M)
	N-MSA	20.00	135.00	(T)
	Price Band 4	20.00	135.00	(N)
	Price Band 5	20.00	135.00	
	Price Band 6	20.00	135.00	(N)
<u>5 Year</u>	1Y97S			(M)
	N-MSA	15.00	100.00	(T)
	Price Band 4	15.00	100.00	(N)
	Price Band 5	15.00	100.00	
	Price Band 6	15.00	100.00	(N)

Certain material on this page formerly appeared on Page 16-110.

(Issued under Transmittal No. 55)

Issued: June 18, 2001

Effective: July 3, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service (Cont'd)16.7.6 Rates and Charges (Cont'd)(A) **Repeater Backbone Architecture** (Cont'd)

(M)

(3) **Repeater**

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
<u>3 Year</u>				
Per Initial Circuit	RP613			(M)
N-MSA		1,700.00	N/A	(T)
Price Band 4		1,700.00	N/A	(N)
Price Band 5		1,700.00	N/A	
Price Band 6		1,700.00	N/A	(N)
Per Subsequent Circuit	RP6A3			(M)
N-MSA		800.00	N/A	(T)
Price Band 4		800.00	N/A	(N)
Price Band 5		800.00	N/A	
Price Band 6		800.00	N/A	(N)
<u>5 Year</u>				(M)
Per Initial Circuit	RP615			(M)
N-MSA		1,500.00	N/A	(T)
Price Band 4		1,500.00	N/A	(N)
Price Band 5		1,500.00	N/A	
Price Band 6		1,500.00	N/A	(N)
Per Subsequent Circuit	RP6A5			(M)
N-MSA		600.00	N/A	(T)
Price Band 4		600.00	N/A	(N)
Price Band 5		600.00	N/A	
Price Band 6		600.00	N/A	(N)

Certain material on this page formerly appeared on Page 16-110.

(Issued under Transmittal No. 55)

Issued: June 18, 2001

Effective: July 3, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service (Cont'd)16.7.6 Rates and Charges (Cont'd)(B) **Dense Wave Division Multiplexing Backbone Architecture**(1) **Channel Terminations**

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
<u>3 Year</u>				
Per Initial Termination	TZUQX			
N-MSA		\$4,600.00	\$1,000.00	(T)
Price Band 4		4,600.00	1,000.00	(N)
Price Band 5		4,600.00	1,000.00	
Price Band 6		4,600.00	1,000.00	(N)
Per Subsequent Termination	TYHQX			
N-MSA		900.00	500.00	(T)
Price Band 4		900.00	500.00	(N)
Price Band 5		900.00	500.00	
Price Band 6		900.00	500.00	(N)
<u>5 Year</u>				
Per Initial Termination	TZURX			
N-MSA		4,500.00	1,000.00	(T)
Price Band 4		4,500.00	1,000.00	(N)
Price Band 5		4,500.00	1,000.00	
Price Band 6		4,500.00	1,000.00	(N)
Per Subsequent Termination	TYHRX			
N-MSA		750.00	500.00	(T)
Price Band 4		750.00	500.00	(N)
Price Band 5		750.00	500.00	
Price Band 6		750.00	500.00	(N)

Material formerly shown on this page now appears on Pages 16-111.1.

(Issued under Transmittal No. 55)

Issued: June 18, 2001

Effective: July 3, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.7 Channel Extension Service (Cont'd)16.7.6 Rates and Charges (Cont'd)(B) **Dense Wave Division Multiplexing Backbone Architecture** (Cont'd)(2) **Channel Mileage**

	USOC	Monthly Rate		
		Fixed	Per Mile	
<u>3 Year</u>	1YAJ5			(M)
N-MSA		\$20.00	\$135.00	(T)
Price Band 4		20.00	135.00	(N)
Price Band 5		20.00	135.00	
Price Band 6		20.00	135.00	(N)
<u>5 Year</u>	1YAK5			(M)
N-MSA		15.00	100.00	(T)
Price Band 4		15.00	100.00	(N)
Price Band 5		15.00	100.00	
Price Band 6		15.00	100.00	(N)

(3) **Redundant Path Switching**

	USOC	Monthly Rate	Nonrecurring Charge	
<u>3 Year</u>				(M)
Per Network	RP8E3			(M)
N-MSA		600.00	N/A	(T)
Price Band 4		600.00	N/A	(N)
Price Band 5		600.00	N/A	
Price Band 6		600.00	N/A	(N)
<u>5 Year</u>				(M)
Per Network	RP8E5			(M)
N-MSA		500.00	N/A	(T)
Price Band 4		500.00	N/A	(N)
Price Band 5		500.00	N/A	
Price Band 6		500.00	N/A	(N)

Certain material on this page formerly appeared on Page 16-111.

(Issued under Transmittal No. 55)

Issued: June 18, 2001

Effective: July 3, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service(A) General

Infospeed DSL Service is a high speed data access service that uses asymmetric digital subscriber line technology.

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Service.**

(B) Definitions

1. **Asymmetric Digital Subscriber Line (ADSL):** an access technology that enables data to be sent over copper facilities.
2. **Downstream:** the transmission path from the Company's Infospeed DSL Connection Point to the customer's designated premises.
3. **Infospeed DSL Connection Point:** a location designated by the Company that serves as an aggregation point for the collection of Infospeed DSL traffic from multiple serving wire centers.
4. **Splitter:** a passive band filter that divides the frequency of a copper facility.
5. **Upstream:** the transmission path from the customer's designated Premises to the Infospeed DSL Connection Point.

(C) Service Description

1. Infospeed DSL is an access service that uses ADSL. A splitter is installed at the customer's designated premises. Data traffic generated by a customer-provided modem is transported to the Infospeed DSL Connection Point. From there, the traffic is transported to the customer's service provider via the Company's Asynchronous Transfer Mode Cell Relay Service (ATM), as specified in subsection (D)3, below.
2. The following types of Infospeed DSL Service are available based on the upstream and downstream speed combinations chosen by the customer: (C)
  - (a) Infospeed 640K: provides maximum speeds of 640 kilobits per second (kbps) downstream and 90 kbps upstream.

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(Issued under Transmittal No. 472)

Issued: July 16, 2004

Effective: July 31, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005

## ACCESS SERVICE

## 16. Packet Data Services (Cont'd)

## 16.8 Infospeed DSL Service (Cont'd)

(C) Service Description (Cont'd)

2. (Cont'd)

- (b) Infospeed 1.6M: provides maximum speeds of 1.6 megabits per second (Mbps) downstream and 90 kbps upstream.
- (c) Infospeed 7.1M: provides maximum speeds of 7.1 Mbps downstream and 680 kbps upstream.
- (d) Infospeed 768K/128K: provides maximum speeds of 768 kbps downstream and 128 kbps upstream.
- (e) Infospeed 1.5M/128K: provides maximum speeds of 1.5 Mbps downstream and 128 kbps upstream.
- (f) Infospeed 1.5M/384K: provides maximum speeds of 1.5 Mbps downstream and 384 kbps upstream.
- (g) Infospeed 7.1M/768K: provides maximum speeds of 7.1 Mbps downstream and 768 kbps upstream.
- (h) Infospeed 384K/384K: provides maximum speeds of 384 kbps downstream and 384 kbps upstream.
- (i) Infospeed 768K/768K: provides maximum speeds of 768 kbps downstream and 768 kbps upstream.
- (j) Infospeed 3M/768K: provides maximum speeds of 3 Mbps downstream and 768 kbps upstream.

3. The data speeds listed above are maximum speeds. Actual speeds may be lower due to the impact of loop distance, modem technology and other factors. Therefore, these data speeds are not guaranteed.

Certain material previously found on this page can now be found on Original Page 16-113.1.

(Issued under Transmittal No. 472)

Issued: July 16, 2004

Effective: July 31, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005

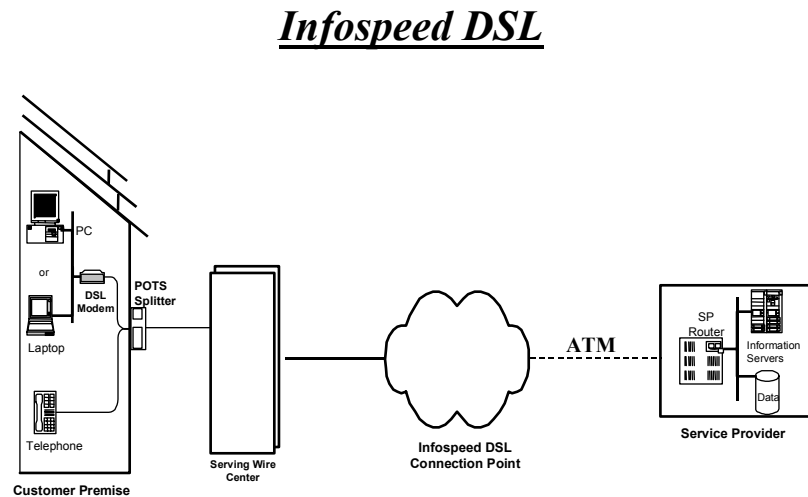
(T)

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(C) Service Description (Cont'd)

4. The following diagram depicts a generic view of the components of Infospeed DSL Service and the manner in which the components are combined to provide a complete Infospeed DSL Service connection, which includes at least one potential service provider arrangement.

(M)



(M)

Certain material on this page formerly appeared on Original Page 16-113.

(Issued under Transmittal No. 472)

Issued: July 16, 2004

Effective: July 31, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(D) Terms and Conditions

1. The Company will provision and maintain Infospeed DSL Service from the Infospeed DSL Connection Point to the network interface device (NID) at the customer's designated premises. The customer is responsible for obtaining a compatible splitter and modem.
2. The customer will provide the Company with the necessary information (e.g., customer name and address, circuit address, serving area, etc.) to provision Infospeed DSL Service.
3. Access from the Infospeed DSL Connection Point will be provided via the Company's ATM service. The rates and charges for ATM service are in addition to rates and charges for Infospeed DSL Service.
4. Infospeed DSL Service will be provisioned over existing Company copper facilities. (x)
5. The Company will qualify copper facilities to determine the suitability of such facilities for Infospeed DSL Service. The Company will not provide Infospeed DSL Service on copper facilities that are unsuitable for the Service. Nor will the Company provide Infospeed DSL Service if it determines that such provision will produce interference to other services. (x)
6. Infospeed DSL Service will be provided subject to the availability and limitations of Company wire centers and outside plant facilities. A list of wire centers capable of providing Infospeed DSL Service is set forth in Section 16.8(E), following.
7. The Company reserves the right to interrupt temporarily Infospeed DSL Service for wire center maintenance, software updates, and in emergency situations.
8. The customer will obtain the appropriate authorization to allow the Company's employees or agents to enter the customer's designated premises at any reasonable hour for the purpose of installing, inspecting, repairing or removing the NID or drop associated with Infospeed DSL Service.

(x) Issued under authority of Special Permission No. 04-056 of the Federal Communications Commission to withdraw pending matter and to reinstate material presently in effect.

(Issued under Transmittal No. 471)

Issued: July 16, 2004

Effective: July 17, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(E) Service Deployment

The Infospeed DSL deployment schedule is shown below:

<u>State</u>	<u>Wire Center</u>	<u>Targeted Service Date</u>
NJ	Bergen	Available Now
NJ	Blackwood	May 1999
NJ	Bloomfield	April 1999
NJ	Caldwell	May 1999
NJ	Cliffside Park	Available Now
NJ	Closter	May 1999
NJ	Dumont	April 1999
NJ	Elizabeth	Available Now
NJ	Englewood	Available Now
NJ	Fair Lawn	June 1999
NJ	Gloucester	June 1999
NJ	Hackensack	Available Now
NJ	Haddonfield	April 1999
NJ	Haledon	June 1999
NJ	Journal Square	Available Now
NJ	Laurel Springs	April 1999
NJ	Leonia	Available Now
NJ	Little Ferry	April 1999
NJ	Livingston	April 1999
NJ	Madison	May 1999
NJ	Market	Available Now
NJ	Marlton	April 1999
NJ	Merchantville	June 1999
NJ	Metuchen	June 1999
NJ	Millburn	May 1999
NJ	Montclair	April 1999
NJ	Moorestown	May 1999
NJ	Morristown	May 1999
NJ	Mount Holly	June 1999
NJ	North Bergen	Available Now
NJ	Oradell	Available Now
NJ	Plainfield	June 1999
NJ	Ramsey	June 1999
NJ	Ridgewood	June 1999
NJ	Rutherford	Available Now
NJ	South Orange	April 1999
NJ	Summit	May 1999
NJ	Union City	Available Now
NJ	Westfield	June 1999
NJ	West Orange	May 1999
NJ	Westwood	April 1999
NJ	Willingboro	May 1999
NJ	Woodbury	June 1999

**Note:** The Infospeed DSL targeted service dates are subject to technical considerations and equipment availability.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President  
2980 Fairview Park Drive, Falls Church, Virginia 22042

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(F) Direct PVC Premium Service

(N)

Direct PVC Premium Service allows the customer to provide its end-user with a static Internet Protocol (IP) address on a Verizon Infospeed DSL Solutions arrangement by using a Direct Permanent Virtual Circuit (PVC) architecture.

Direct PVC Premium Service will be provided subject to the availability and limitations of Telephone Company facilities.

1. The existing network architecture supports the capability to assign dynamic IP addresses by aggregating the traffic of multiple end-users. Direct PVC Premium Service is available as a chargeable option where facilities allow.

(N)

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(Issued under Transmittal No. 370)

Issued: October 16, 2003

Effective: October 31, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(G) Rate Regulations

1. A recurring monthly rate is charged for each service.
2. A nonrecurring rate applies for the installation of each service. The same rate applies for a change in service configuration (i.e., a change in data speeds).
3. If a customer cancels Infospeed DSL Service to a designated premises within thirty (30) days of installation, the customer will not be charged the foregoing recurring and nonrecurring charges.

4. Direct PVC Premium Service Charge

As described in 16.8(F) previously, a monthly recurring charge applies for each Direct PVC Premium Service. The charge applies to all available Verizon Infospeed DSL Solutions speeds and is in addition to the rates and charges for the associated Verizon Infospeed DSL Solutions arrangement.

If a customer elects to disconnect Direct PVC Premium Service and maintain the underlying Verizon Infospeed DSL Solutions service arrangement, a new Service Activation Charge, as specified in Section 16.8(H) following, will apply.

## 5. One-Year Term Plan

(N)

(a) Description

Verizon Infospeed DSL Solutions One-Year Term Plan provides Verizon customers discounted rates based on commitments of a specific term. The One-Year Term Plan encompasses all of customer's Verizon Infospeed DSL Solutions arrangements.

If customer is not the end user of the service, then customer who purchases Verizon Infospeed DSL Solutions under the One-Year Term Plan assumes the following obligations:

- Customer will submit orders to the Telephone Company electronically in a format and manner designated by the Telephone Company.

(N)

Certain material previously found on this page can now be found on Original Page 16-116.2.

(Issued under Transmittal No. 472)

Issued: July 16, 2004

Effective: July 31, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(G) Rate Regulations (Cont'd)

## 5. One-Year Term Plan (Cont'd)

(a) Description (Cont'd)

- Customer will provision all customer premises equipment to its end users; (N)
- Customer will deal directly with its end users and will be solely liable with respect to all matters relating to the service, including marketing, ordering, installation, maintenance, repair, billing and collections; and
- Customer will not direct its end users to contact the Telephone Company regarding any aspect of the service.

At the expiration of the One-Year Term Plan, the customer may choose to convert to the month-to-month rates, or continue with rates, charges, terms and conditions in effect at the end of the expiring Term Plan on a year-to-year basis. A conversion to month-to-month rates, or discontinuance, will require that the customer submit a service change order.

One-Year Term Plans are subject to payments for early termination.

(b) Termination without Liability

The customer may terminate a term plan without termination liability should the monthly rates increase during the term of the existing plan. Subsequent to a rate increase, the customer must either elect to terminate the term plan without liability or continue the term plan at the new rate.

End users subscribing to Verizon Infospeed DSL Solutions arrangement(s) under a one-year term who change to an ISP/Content Provider subscribing to Verizon Infospeed DSL Solutions under a Five-Year Volume and Term Discount Plan are automatically included in the ISP/Content Provider's Five-Year VTDP. No termination liability applies to the terminated one-year term plan of the end user. (N)

Certain material previously found on this page can now be found on Original Page 16-116.3.

(Issued under Transmittal No. 472)

Issued: July 16, 2004

Effective: July 31, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(G) Rate Regulations (Cont'd)5. One-Year Term Plan (Cont'd)(c) Termination Liability

(N)

If the customer elects to discontinue its term plan prior to the end of the commitment period, termination liability charges will apply. Liability will be the difference between what would have been charged had the customer had the month-to-month rate for each Verizon Infospeed DSL Solutions arrangement in-service at the end of each month customer subscribed to the term plan, less all payments made and owed.

(N)

6. Volume and Term Discount Plan (VTDP)

(T)

(a) Description

The Infospeed DSL Volume and Term Discount Plan (VTDP) provides Infospeed customers discounted rates based on commitments of minimum volumes over a specific term. The VTDP rates in this Tariff are applied by service type and only to the Verizon Infospeed DSL Service arrangements covered by this Tariff.

The VTDP has optional volume Commitment Levels. Each Commitment Level has minimum service arrangement volumes assigned for each year of the VTDP. The Commitment Levels encompass all of a customer's Infospeed Services (640K, 1.6M and 7.1M) provided under this tariff, including

Certain material on this page formerly appeared on 5<sup>th</sup> Revised Page 16-116.

(Issued under Transmittal No. 472)

Issued: July 16, 2004

Effective: July 31, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(G) Rate Regulations (Cont'd)6. Volume and Term Discount Plan (VTDP) (Cont'd)

(T)

(a) Description (Cont'd)

Premium DSL Service, as described in Section 16.10 following, and the Infospeed DSL Solutions and Premium DSL arrangements provided in the territory covered by The Verizon Telephone Companies Tariff F.C.C. No. 20 and the Verizon Advanced Data Inc. Tariff F.C.C. No. 1, except for those services that are included in a separate 5N-TVDP.

(M)

A customer who purchases Infospeed DSL under the VTDP assumes the following obligations: The customer will submit orders to the Company electronically in a format and manner designated by the Company; the customer will provision all customer premises equipment and wiring to its end users; the customer will deal directly with its end users and will be solely liable with respect to all matters relating to the service, including marketing, ordering, installation, maintenance, repair, billing and collections; and the customer will not direct its end users to contact the Company regarding any aspect of the service.

The telecommunications services offered under the VTDP are provided at wholesale to carriers and non-carriers. The telecommunications services offered under the VTDP are not services that the Company provides at retail and, accordingly, are not subject to the rate provisions of Sections 251(c)(4) and 252(d)(3) of the Communications Act, 47 U.S.C. §§ 251(c)(4), 252(d)(3).

(M)

VTDP is available for terms of 3 and 5 years for 640K, 1.6M and 7.1M speed arrangements.

(C)

(C)

Certain material on this page formerly appeared on 3rd Revised Page 16-116.1.

(Issued under Transmittal No. 472)

Issued: July 16, 2004

Effective: July 31, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(G) Rate Regulations (Cont'd)6. Volume and Term Discount Plan (VTDP) (Cont'd)

(T)

(a) Description (Cont'd)

The 5-year VTDP has 6 optional volume Commitment Levels, A through F (each a "Commitment Level" or collectively "Commitment Levels"). The 3-year VTDP has 2 optional volume Commitment Levels, A and B. Each Commitment Level has minimum line volumes assigned for each year of the VTDP. The Commitment Level includes all of a customer's in-service Infospeed DSL lines provided under this tariff, as well as the Infospeed DSL lines provided in the territories covered by The Verizon Telephone Companies Tariff F.C.C. No. 20 and the Verizon Advanced Data Inc. Tariff F.C.C. No. 1, except for those services that are included in a separate 5N-TVDP. However, the VTDP rates in this tariff are applied by service type and only to the Infospeed DSL services in the area covered by this tariff; see Section 14 following. Commitment Levels are selected by the customer and must be designated in the customer's order for VTDP. The Commitment Levels are shown in Section 16.8(G)(2), following.

Contract Year 1 will begin on the service anniversary date as defined below. The service anniversary date is the date of the order for VTDP designating the Commitment Level and Term, except for Commitment Level E and F customers. For customers selecting Commitment Levels E or F, the service anniversary date is the date six months after the subscription order is submitted, allowing a "Ramp-up Period". Each Contract Year runs 12 months from its service anniversary date ("Contract Year").

At expiration of a VTDP, the customer may choose a new VTDP, convert to the month-to-month rates, or continue with the rates, charges, terms and conditions and Commitment Level in effect at the end of the expiring VTDP on a year-to-year basis. A conversion to a new VTDP or to month-to-month rates, or discontinuance, will require that the customer submit a service change order.

VTDP is subject to payments for missed annual commitments ("Shortfall Liability") and for early termination ("Termination Liability"). In addition, Commitment Level E and F customers are subject to a Minimum Performance Threshold payment.

(Issued under Transmittal No. 472)

Issued: July 16, 2004

Effective: July 31, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(G) Rate Regulations (Cont'd)6. Volume and Term Discount Plan (VTDP) (Cont'd)

(T)

(b) Annual Review

The Commitment Level is reviewed at the end of each Contract Year ("annual review") on the anniversary date. A count is taken of all Infospeed DSL lines in service in all Telephone Company jurisdictions (those covered by this tariff and the Telephone Company's F.C.C. No. 11) as of the last day of the Contract Year. Customers who do not meet the minimum quantity of in-service lines for their Commitment Level on such date will be so notified.

If, at the annual review, the total quantity of Infospeed DSL lines that a customer has in service on the last day of the Contract Year does not meet the minimum line volume applicable to the customer's subscribed Commitment Level, a Shortfall Liability will be assessed. In addition, customers with Commitment Levels B through D with less than the minimum line volumes will be reassigned to a reduced Commitment Level for the next year based on their current line volume (e.g., a 5-year VTDP customer in Commitment Level D with 40,000 lines in service at the end of year 3 would be placed in Commitment Level C for year 4). As an alternative to reassignment, a customer may stay in its existing Commitment Level for the subsequent year by paying the alternative Shortfall Liability specified below.

Solely at the end of Contract Year 1, customers with Commitment Levels E and F, regardless of whether such customers have met the minimum line volumes for their chosen Commitment Levels, will be automatically continued in their chosen Commitment Level for Contract Year 2, subject to a Shortfall Liability described below, but will be reassigned in the remaining years, if necessary, based on their line volumes.

(Issued under Transmittal No. 472)

Issued: July 16, 2004

Effective: July 31, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(G) Rate Regulations (Cont'd)6. Volume and Term Discount Plan (VTDP) (Cont'd)

(T)

(b) Annual Review (Cont'd)

At the end of any Contract Year, a customer may elect to move to a higher Commitment Level, either in its existing term VTDP or a longer term VTDP, for the next Contract Year and for the remainder of the VTDP, if it has met the minimum line volume for its existing Commitment Level. However, should the customer fail to meet the minimum line volume for the higher Commitment Level by the end of the Contract Year following such election, an additional charge will be assessed equal to 10% of the Shortfall Liability for the Contract Year, as specified below.

(c) Shortfall Liability

Shortfall Liability applies to any VTDP customer with Commitment Levels B through F that fails to meet the minimum line volumes for its designated Commitment Level.

Shortfall Liability is based on the difference between the monthly rate for the designated Commitment Level and the monthly rate for the Commitment Level that should have been charged based upon the actual quantity of in-service Infospeed DSL lines at the end of the Contract Year. The Shortfall Liability is equal to the difference in monthly rate multiplied by the sum of all lines in service at the end of each month during such Contract Year. For example, at the end of Contract Year 2, a 5-year VTDP customer with Commitment Level D and only 10,000 lines in-service will be assessed the difference in the monthly rate between Commitment Level C and Commitment Level D for each line in service at the end of each month during the Contract Year.

A customer may stay in its Commitment Level by paying an alternative Shortfall Liability equal to the minimum line volume applicable to its Commitment Level less the actual number of Infospeed DSL lines in-service at the end of the Contract Year multiplied by the monthly rate for Infospeed DSL 640K applicable to its Commitment Level, multiplied by 6.

(Issued under Transmittal No. 472)

Issued: July 16, 2004

Effective: July 31, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington DC 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(G) Rate Regulations (Cont'd)6. Volume and Term Discount Plan (VTDP) (Cont'd)

(T)

(c) Shortfall Liability (Cont'd)

An additional payment of 10% of the Shortfall Liability is assessed those customers who fail to meet the minimum line volume after moving to a higher Commitment Level the previous year.

Customers who fall below the minimum line volume for Commitment Level A in any Contract Year will be terminated from the VTDP and will be subject to Termination Liability. All of such customer's Infospeed DSL lines will revert to basic month-to-month rates.

(d) Minimum Performance Threshold

Customers who designate Commitment Levels E and F are also subject to a Minimum Performance Threshold in Contract Year 2. The Minimum Performance Threshold for a Commitment Level E customer is 50,000 in-service Infospeed DSL lines; for a Commitment Level F customer the Minimum Performance Threshold is 100,000 in-service Infospeed DSL lines.

A Minimum Performance Threshold payment is applicable when a customer fails to meet the Minimum Performance Threshold at the end of Contract Year 2. The payment is equal to the difference between the Minimum Performance Threshold requirement and the actual number of lines in service multiplied by the 640K monthly rate for the Commitment Level multiplied by 6.

The Minimum Performance Threshold payment is in addition to Shortfall liability.

(e) Adjustments to Liability

The minimum line volumes used to calculate Shortfall Liability for Commitment Levels E and F will be proportionately reduced in Contract Year 1 if the Company fails to qualify at least 5 million residential households region-wide (i.e., in jurisdictions covered by this tariff and the Telephone Company's F.C.C. No. 11) to enable them to receive Infospeed DSL service at the beginning of Contract Year 1. And, if the Company fails to qualify at least 9 million residential households region-wide to enable them to receive Infospeed DSL service at the beginning of Contract Year 2, the minimum line volumes used to calculate both the Shortfall Liability and the Minimum Performance Threshold payment for Commitment Levels E and F for Contract Year 2 will be proportionately reduced.

(Issued under Transmittal No. 472)

Issued: July 16, 2004

Effective: July 31, 2004

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(G) Rate Regulations (Cont'd)6. Volume and Term Discount Plan (VTDP) (Cont'd)

(T)

(e) Adjustments to Liability (Cont'd)

The reduction is in direct proportion to the shortfall in the above commitment; e.g., if in Contract Year 2, the Company has only 7 million qualified households for Infospeed DSL, Commitment Level E and F customer's minimum line volumes used to calculate Shortfall Liability and Minimum Performance Threshold is reduced by 2/9ths of the levels specified in 16.8(F)4(c) and (d) preceding.

(f) Termination Without Liability

A customer may terminate a VTDP without Termination Liability, Shortfall Liability, or Minimum Performance Threshold payments should the monthly rates increase during the term of the existing VTDP. Subsequent to a rate increase, the customer must either elect to terminate the VTDP without liability, negotiate a new VTDP, or continue the VTDP at the new rate.

(g) Termination Liability

If a customer elects to discontinue its VTDP prior to the end of the commitment period, Termination Liability charges will apply. Liability will be the lesser of the charges determined by the following calculations:

- (i) The difference between what would have been charged had the customer had the month-to-month (Basic) rate for each line in-service at the end of each month the customer subscribed to the VTDP less all payments made and owed, including any Shortfall Liability and Minimum Performance Threshold payments made and owed.
- (ii) A charge for the remainder of the commitment period calculated as the sum of (a) the minimum line volumes for the current Contract Year, multiplied by the 640K monthly rate applicable to the Commitment Level, multiplied by 1/2 the remaining months in the current Contract Year, and (b) the sum of the minimum line volumes for each remaining full Contract Year of the VTDP multiplied by the 640K monthly rate applicable to the Commitment Level, multiplied by 6.

(Issued under Transmittal No. 472)

Issued: July 16, 2004

Effective: July 31, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(H) Rates and Charges

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Service.**

1. Basic Month-to-Month

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
Infospeed DSL 640K	ADAC3	\$ 39.95	\$ 99.00	(T)
Infospeed DSL 1.6M	ADAB2	59.95	99.00	
Infospeed DSL 7.1M	ADAA1	109.95	99.00	(T)
Infospeed DSL 768K/128K	ADAC3	39.95	60.00	
Infospeed DSL 1.5M/128K	DNLAX	39.95 (R)	60.00	
Infospeed DSL 1.5M/384K	ADAB2	39.95 (R)	60.00	
Infospeed DSL 7.1M/768K	ADAA1	109.95	60.00	
Infospeed DSL 384K/384K	DNLZX	46.00	60.00	
Infospeed DSL 768K/768K	DNLCX	80.00	60.00	
Infospeed DSL 3M/768K	AJAAX	39.95 (R)	60.00	(T)

2. One-Year Term Plan

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
Infospeed DSL 768K/128K	ADAA9	37.50	60.00	(T)
Infospeed DSL 1.5M/128K	ADAM9	37.50 (R)	60.00	
Infospeed DSL 1.5M/384K	ADAM5	37.50 (R)	60.00	
Infospeed DSL 7.1M/768K	ADAA1	102.95	60.00	
Infospeed DSL 384K/384K	ADA95	44.00	60.00	
Infospeed DSL 768K/768K	DNLCX	68.00	60.00	
Infospeed DSL 3M/768K	AJAAX	37.50 (R)	60.00	(T)

(Issued under Transmittal No. 500)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.8 Infospeed DSL Service (Cont'd)(H) Rates and Charges (Cont'd)

**This service will be provided by the Telephone Company only in the State of New Jersey. Provision of this service in all other states will be provided through the Telephone Company's Tariff F.C.C. No. 20, Communications Service.**

3. Volume and Term Discount Plan (VTDP)

Note: CL = Commitment Level, CY = Contract Year, Mo. Rate = Monthly Rate, and NRC = Nonrecurring Charge.

## a) 3-Year VTDP

CL	CY1	CY2	CY3	640K Mo. Rate	1.6M Mo. Rate	7.1M Mo. Rate	NRC
A	250	500	500	\$37.95	\$56.95	\$104.95	\$99.00
B	750	1,500	1,500	35.95	53.95	98.95	99.00

## b) 5-year VTDP

CL	CY1	CY2	CY3	CY4	CY5	640K Mo. Rate	1.6M Mo. Rate	7.1M Mo. Rate
A	125	250	375	750	1,000	\$37.95	\$56.95	\$104.95
B	250	750	1,250	2,500	5,000	35.95	53.95	98.95
C	2,500	7,500	22,500	37,500	50,000	33.95	50.95	92.95
D	5,000	15,000	45,000	75,000	100,000	32.95	47.95	87.95
E	25,000	75,000	225,000	375,000	500,000	31.95	46.95	84.95
F	50,000	150,000	450,000	750,000	1,000,000	29.95	44.95	81.95

4. Optional Features

	<u>USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
Direct PVC Premium Service, per arrangement	TBD	\$ 15.00	N/A

Certain material on this page previously appeared on 2nd Revised Page 16-122.

(Issued under Transmittal No. 472)

Issued: July 16, 2004

Effective: July 31, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, DC 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)

## 16.9 Verizon Infospeed DSL Solutions Five-Year Term and Volume Discount Plan

## (A) Description

Verizon Infospeed DSL Solutions Five-Year Term and Volume Discount Plan (5N-TVDP) provides New Jersey Customers discounted rates for Verizon Infospeed DSL Solutions (described in Section 16.8 preceding) based on commitments of a specific term with minimum volumes. Verizon Infospeed DSL Solutions is subject to the terms and conditions set forth in Section 16.8 preceding. Premium DSL Service is subject to the terms and conditions set forth in Section 16.10(B) following. (C) (C)

A Customer who purchases Verizon Infospeed DSL Solutions under the 5N-TVDP assumes the following obligations:

- Customer will submit orders to Company electronically in a format and manner designated by Company;
- Customer will provision all Customer premises equipment to its end users;
- Customer will deal directly with its end users and will be solely liable with respect to all matters relating to the service, including marketing, ordering, installation, maintenance, repair, billing and collections; and
- Customer will not direct its end users to contact Company regarding any aspect of the service.
- Customer agrees to be billed via Company's standard billing system for Infospeed DSL.

The 5N-TVDP has three optional volume Commitment Levels, A, B and C. Each Commitment Level has minimum service arrangement volumes assigned for each year of the plan. The Commitment Level includes all of Customer's billed Verizon Infospeed DSL Solutions and Premium DSL (as described in Section 16.10 following) arrangements, except any services not converted from either a 3-Year or 5-Year VTDP offered under this tariff, or from a 5-Year VTDP offered under either The Verizon Telephone Companies Tariff F.C.C. No. 20 or the Verizon Advanced Data Inc. Tariff F.C.C. No. 1. 5N-TVDP rates are applied by service type. Commitment Levels are selected by Customer and must be designated in Customer's order for 5N-TVDP. The Commitment Levels are specified in (G) following. (C) (C)

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(Issued under Transmittal No. 343)

Issued: July 22, 2003

Effective: August 6, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)

## 16.9 Verizon Infospeed DSL Solutions Five-Year Term and Volume Discount Plan (Continued) (N)

## (A) Description (Continued)

Customers with an existing 3-Year or 5-Year Volume and Term Discount Plan have the following options:

Option 1: Customer may convert all existing service arrangements to a 5N-TVDP. The service anniversary date of the 3-Year or 5-Year VTDP being converted will continue to apply. Customer will remain liable for any accrued Shortfall Liability under a 3-Year or 5-Year VTDP. The number of Infospeed DSL Solutions arrangements billed under the 3-Year or 5-Year VTDP being converted will apply to satisfy the minimum arrangement volumes of the 5N-TVDP.

Option 2: Customer may subscribe to a 5N-TVDP plan in addition to its existing 3-Year or 5-Year VTDP. The service anniversary date of the existing 3-Year or 5-Year VTDP will remain in effect, and a new service anniversary date will be established for the 5N-TVDP. Infospeed DSL Solutions arrangements billed under the 3-Year or 5-Year VTDP will not apply to satisfy the minimum arrangement volumes of the 5N-TVDP. Similarly, the number of Infospeed DSL Solutions arrangements billed under the 5N-TVDP will not apply to satisfy the minimum arrangement volumes of the 3-Year or 5-Year VTDP. (N)

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(Issued under Transmittal No. 311)

Issued: April 14, 2003

Effective: April 29, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)

## 16.9 Verizon Infospeed DSL Solutions Five-Year Term and Volume Discount Plan (Continued) (N)

## (A) Description (Continued)

At the expiration of a 5N-TVDP, Customer may commit to a new 5N-TVDP, convert to month-to-month rates as specified in Section 16.8 (G) preceding, or continue with rates, charges, terms and conditions in effect at the end of the expiring 5N-TVDP on a year-to-year basis. A commitment to a new 5N-TVDP, conversion to month-to-month rates, or a request to discontinue service will require that Customer submit a service change order.

The 5N-TVDP is subject to payments for missed annual commitments ("Shortfall Liability") and for early termination ("Termination Liability").

(N)

(Issued under Transmittal No. 311)

Issued: April 14, 2003

Effective: April 29, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005



## ACCESS SERVICE

16. Packet Data Services (Cont'd)

## 16.9 Verizon Infospeed DSL Solutions Five-Year Term and Volume Discount Plan (Continued) (N)

## (B) Annual Review

The Commitment Level is reviewed at the end of each Subscription Year on the service anniversary date. A count is taken of all billed Verizon Infospeed DSL Solutions arrangements as of the last day of the Subscription Year. Customers who do not meet the minimum quantity of billed arrangements for their Commitment Level on such date will be so notified.

Subscription Year One will begin on the service anniversary date, which is the Subscription Date indicated on the Application For Service agreement signed by the Company and the Customer. Each Subscription Year runs 12 months from its service anniversary date.

If, at the annual review, the total quantity of billed Verizon Infospeed DSL Solutions arrangements that Customer has on the last day of the Subscription Year does not meet the respective minimum Annual Commitment Level, a Shortfall Liability will be assessed. In addition, Customers with Commitment Levels B and C with less than the minimum arrangement volumes will be reassigned to a reduced Commitment Level for the next year based on their current arrangement volume (e.g., a 5N-TVDP Customer in Commitment Level C with 125,000 arrangements billed at the end of year three would be placed in Commitment Level B for year four).

At the end of any Subscription Year, Customer may elect to move to a higher Commitment Level for the next Subscription Year and for the remainder of the 5N-TVDP, if it has met the minimum arrangement volume for its existing Commitment Level. However, should Customer fail to meet the minimum arrangement volume for the higher Commitment Level by the end of the Subscription Year following such election, an additional charge will be assessed equal to 10% of the Shortfall Liability for the Subscription Year, as specified following. (N)

(Issued under Transmittal No. 311)

Issued: April 14, 2003

Effective: April 29, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)

## 16.9 Verizon Infospeed DSL Solutions Five-Year Term and Volume Discount Plan (Continued) (S) (x)

## (C) Shortfall Liability

Shortfall liability applies to any 5N-TVDP Customer that fails to meet the minimum arrangement volumes for its designated commitment level.

Shortfall liability is based on the difference between the monthly rate for the designated commitment level and the monthly rate for the commitment level that should have been charged based upon the actual quantity of billed Verizon Infospeed DSL Solutions arrangements at the end of the Subscription Year. The shortfall liability is equal to the difference in the monthly rate multiplied by the sum of all arrangements billed at the end of each month during such Subscription Year. For example, at the end of Subscription Year Two, a 5N-TVDP Customer with Commitment Level C and only 10,000 arrangements in-service will be assessed the difference in the monthly rate between Commitment Level B and Commitment Level C for each arrangement billed at the end of each month during the Subscription Year.

Customer may stay in its commitment level by paying an alternative shortfall liability equal to the minimum arrangement volume applicable to its Commitment Level less the actual number of Verizon Infospeed DSL arrangements billed at the end of the Subscription Year multiplied by the current monthly rate for the selected commitment level, multiplied by six.

An additional payment of 10% of the shortfall liability is assessed those Customers who fail to meet the minimum arrangement volume after moving to a higher commitment level the previous year.

Customers who fall below the minimum arrangement volume for Commitment Level A in any Subscription Year will be terminated from the 5N-TVDP and will be subject to termination liability as specified in (E) following. All of Customer's Verizon Infospeed DSL Solutions arrangements will revert to the basic month-to-month rates specified in Section 16.8 preceding.

(S) (x)

If a Customer falls below the minimum volume for Commitment Level A and is terminated from the 5N-TVDP twice, in consecutive Subscription Years, the Customer may not subscribe to any term plan for 12 months after being moved to month-to-month rates.

(C) (y)

(C) (y)

(x) Reissued material filed under Transmittal No. 311 on April 14, 2003.

(y) Issued under authority of Special Permission No. 03-048 of the Federal Communications Commission to revise material not yet in effect on 1 day's notice.

(Issued under Transmittal No. 317)

Issued: April 28, 2003

Effective: April 29, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)

## 16.9 Verizon Infospeed DSL Solutions Five-Year Term and Volume Discount Plan (Continued) (N)

## (D) Termination Without Liability

Customer may terminate a 5N-TVDP without termination liability or shortfall liability should the monthly rates increase during the term of the existing 5N-TVDP, exclusive of any increase due to local, state or federal fees, taxes or surcharges. Subsequent to a rate increase, Customer must either elect to terminate the plan without liability or continue the 5N-TVDP at the new rate. Customer's continuation in the 5N-TVDP 30 days or more following a rate increase shall constitute Customer's election to continue the plan at the new rate.

## (E) Termination Liability

If Customer elects to discontinue its 5N-TVDP prior to the end of the commitment period, termination liability charges will apply. Liability will be the difference between what would have been charged had Customer had the month-to-month rate set forth in Section 16.8 preceding for each Verizon Infospeed DSL Solutions arrangement billed at the end of each month Customer subscribed to the 5N-TVDP less all payments made and owed, including any shortfall liability payments made and owed.

## (F) Rate Regulations

A recurring monthly rate is charged for each service.

A nonrecurring rate applies for the installation of each service. The same rate applies for a change in service configuration (i.e., a change in data speeds).

Customers ordering Commitment Level C of the 5N-TVDP who cancel Infospeed DSL Service to a designated premises within thirty (30) days of installation will not be charged the foregoing recurring monthly rate or nonrecurring charges.

(N)

(Issued under Transmittal No. 311)

Issued: April 14, 2003

Effective: April 29, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.9 Verizon Infospeed DSL Solutions Five-Year Term and Volume Discount Plan (Continued)(G) Rates and Charges - New Jersey1. Monthly Rates

CL	SY1	SY2	SY3	SY4	SY5	Verizon Infospeed 768K/128K	Verizon Infospeed 1.5M/128K	Verizon Infospeed 1.5M/384K
						Mo. Rate	Mo. Rate	Mo. Rate
A	50	100	150	200	250	\$28.95	\$28.95	\$28.95
B	400	800	1,200	1,600	2,000	27.95	27.95	27.95
C	50,000	100,000	150,000	200,000	250,000	26.95	26.95	26.95

CL	SY1	SY2	SY3	SY4	SY5	Verizon Infospeed 7.1M/768K	Verizon Infospeed 384K/384K
						Mo. Rate	Mo. Rate
A	50	100	150	200	250	\$92.95	\$40.00
B	400	800	1,200	1,600	2,000	87.95	38.00
C	50,000	100,000	150,000	200,000	250,000	81.95	34.00

CL	SY1	SY2	SY3	SY4	SY5	Verizon Infospeed 768K/768K	Verizon Infospeed 3M/768K
						Mo. Rate	Mo. Rate
A	50	100	150	200	250	\$56.00	\$28.95 (R)
B	400	800	1,200	1,600	2,000	54.00	27.95 (R)
C	50,000	100,000	150,000	200,000	250,000	50.00	26.95 (R)

Note: CL = Annual Commitment Level (billed lines in service)  
SY = Subscription Year  
Mo. Rate = Monthly Rate

2. Nonrecurring Charges

Installation \$60.00 (R)

(Issued under Transmittal No. 500)

Issued: October 8, 2004

Effective: October 23, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.10 Verizon Infospeed Premium Digital Subscriber Line Service (Premium DSL) (N)

## (A) Description

Premium DSL is a high-speed symmetrical (upstream and downstream data rates are equal) data-only access service. Premium DSL also features static IP Addressing, Variable Bit Rate Non-Real Time Quality of Service and support for multiple users. The service uses DSL technology to transport data over compatible facilities to an end user premises. Data traffic generated by a customer-provided modem is transported to the Verizon Premium DSL Connection Point. From there, the traffic is transported to the end user's Information Service Provider (ISP) or content provider via other Telephone Company services.

(1) Static IP Addressing – The Internet Protocol (IP) address assigned to a computer never changes. The static IP address becomes the permanent address of the computer on the internet, making it possible for other Internet users to locate and connect to the computer.

(2) Variable Bit Rate Non-Real Time Quality of Service – Provides customers with traffic prioritization throughout the ATM network. For example, during times of congestion on the network, the data of Premium DSL customers will have a significantly higher bandwidth prioritization (i.e., low cell loss) over the data of other non-Premium DSL customers.

Five service level tiers of Premium DSL are available:

- (1) 192/192 Kbps
- (2) 384/384 Kbps
- (3) 768/768 Kbps
- (4) 1.1/1.1 Mbps
- (5) 1.5/1.5 Mbps

The data speeds listed above are maximum speeds. Actual speeds may be lower due to the impact of loop distance, modem technology and other factors.

(N)

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(Issued under Transmittal No. 343)

Issued: July 22, 2003

Effective: August 6, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.10 Verizon Infospeed Premium Digital Subscriber Line Service (Premium DSL) (Cont'd)

## (B) Terms and Conditions

(N)

The minimum service period for Premium DSL is one year. In the event Premium DSL is disconnected in less than one year, a minimum service period charge, as described in 16.10(D) following, will be assessed.

Premium DSL is provided subject to the availability and limitations of Telephone Company facilities and related equipment.

The Telephone Company will provision and maintain Premium DSL from the Verizon Premium DSL Connection Point to the network interface device (NID) at the designated end user premises. The Telephone Company will advise the customer of any additional equipment necessary to support Premium DSL. The customer is responsible for obtaining the necessary additional equipment, such as a compatible DSL modem.

Access from Verizon Premium DSL Connection Point may be provided via Telephone Company data network interface services such as Frame Relay Service, Asynchronous Transfer Mode (ATM) Service and dedicated Special Access services. The regulations, rates and charges for the specific type of service apply as specified in other Telephone Company tariff(s) from which the service is ordered and are in addition to rates and charges for Premium DSL.

The customer will provide the Telephone Company with the necessary information (e.g., name and address/location, telephone number, serving area, etc., related to end user and ISP/Content Provider) to provision Premium DSL.

The Telephone Company will obtain qualification information on facilities to determine suitability of such facilities for Premium DSL. The Telephone Company will not provide Premium DSL on facilities that are unsuitable for the service, nor will the Telephone Company provide Premium DSL if it determines that such provision will produce interference to other services.

(N)

(Issued under Transmittal No. 343)

Issued: July 22, 2003

Effective: August 6, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.10 Verizon Infospeed Premium Digital Subscriber Line Service (Premium DSL) (Cont'd)

## (B) Terms and Conditions (Cont'd)

The Telephone Company reserves the right to temporarily interrupt Premium DSL for maintenance, software upgrades and in emergency situations. The customer will obtain authorization from the end user to allow the Telephone Company employees or its authorized agents to enter end user's designated premises at any reasonable hour for the purpose of installing, inspecting or repairing the Premium DSL arrangement. The customer will also obtain permission from the end user, upon termination of Premium DSL, to allow Company employees or its authorized agents to enter the premises at a reasonable hour to remove any Company equipment. The customer will present evidence of such authorizations to the Telephone Company upon request. The Telephone Company may terminate an end user's Premium DSL in the event such authorizations are not obtained and maintained. (N)

Scheduled maintenance activities that adversely affect service will be conducted during pre-determined maintenance windows at time intervals that have the least likelihood of interruption to during peak usage periods. (N)

(Issued under Transmittal No. 343)

Issued: July 22, 2003

Effective: August 6, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.10 Verizon Infospeed Premium Digital Subscriber Line Service (Premium DSL) (Cont'd)

## (C) Rate Regulations

(N)

1. Monthly Rate – A monthly recurring charge applies for each Premium DSL arrangement.
2. DSL Installation Charge – A nonrecurring DSL Installation Charge applies for the installation/acquisition of loop facilities from the Premium DSL Connection Point to the end user's premises.
3. Service Activation – A nonrecurring charge applies for the initial service activation associated with each Premium DSL arrangement.
4. ISP/Content Provider Charge – A nonrecurring charge applies for activities associated with a change in ISP/Content Provider for each Premium DSL arrangement changed.
5. Speed Change/Downward – A nonrecurring charge applies for activities associated with a downward change in speed from one service type to another with each Premium DSL arrangement changed.
6. Speed Change/Upward – No nonrecurring charge applies for activities associated with an upward change in speed from one service type to another with each Premium DSL arrangement changed.
7. Software Change – A nonrecurring charge applies for a software change associated with the remapping of circuit information or other software changes associated with a Premium DSL arrangement. This charge is applied on a per software change basis. This charge also applies when the customer's Premium DSL service is validly assigned, or when the customer's Premium DSL service is suspended and transitioned to a new provider due to nonpayment. In this case, the software change charge applies to the new provider on a per software change basis.
8. Service Aggregation – The number of billed Premium DSL arrangements provided under this tariff may apply to satisfy the minimum arrangement volumes the customer has committed to under either a VTDP or 5N-TVDP for Verizon Infospeed DSL Solutions. Premium DSL rates and charges set forth in 16.10(E) apply.

(N)

(Issued under Transmittal No. 343)

Issued: July 22, 2003

Effective: August 6, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.10 Verizon Infospeed Premium Digital Subscriber Line Service (Premium DSL) (Cont'd) (N)

## (D) Minimum Service Period Charge

The customer may disconnect Premium DSL without a minimum service period charge should the monthly rate increase during the term of the existing one year commitment, exclusive of any increase due to local, state or federal fees, taxes or surcharges. The Telephone Company will notify the customer in advance of any upcoming rate increase in order to allow sufficient time for the customer to determine if it wishes to disconnect Premium DSL.

Upon notification by the Telephone Company of an upcoming rate increase, the customer must either elect to disconnect the service without liability or continue the service at the new rate. The customer's continuation of Premium DSL 30 days or more following a rate increase shall constitute the customer's election to continue at the new rate.

If a customer elects to discontinue Premium DSL prior to the end of the one year minimum service period without the occurrence of a Premium DSL rate increase, a minimum service period charge will apply. The minimum service period charge is equal to the lesser of \$250.00, or the monthly rate for the customer's service, as set forth herein, times the number of months remaining in the initial one year minimum service period.

(N)

(Issued under Transmittal No. 343)

Issued: July 22, 2003

Effective: August 6, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.10 Verizon Infospeed Premium Digital Subscriber Line Service (Premium DSL) (Cont'd) (N)

## (E) Rates and Charges

## 1. Monthly Rates

	<u>Monthly Rate</u>
Premium DSL 192 Kbps	\$ 85.00
Premium DSL 384 Kbps	108.00
Premium DSL 768 Kbps	125.00
Premium DSL 1.1 Mbps	163.00
Premium DSL 1.5 Mbps	222.00

## 2. Nonrecurring Charges

	<u>Nonrecurring Charges</u>
DSL Installation Charge	\$150.00
Service Activation	60.00
ISP/Content Provider Change	60.00
Speed Change - Downward	35.00
Speed Change - Upward	0.00
Software Change	6.00

(N)

(Issued under Transmittal No. 343)

Issued: July 22, 2003

Effective: August 6, 2003

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service

This service is offered to customers in the State of New Jersey and in the New Jersey and New York Corridor, as described in Section 14.3.2 preceding.

(A) General

- (1) Transparent LAN Service (TLS) is a high speed data service which provides Ethernet transport within a LATA and within the New Jersey and New York Corridor (Ethernet TLS) or allows interconnection of Ethernet TLS as described herein between LATAs (National TLS). Ethernet TLS is provided over a shared network and utilizes FDDI, ATM, Gigabit Ethernet or a combination, to transport the customers' data between customer locations within a LATA and within the New Jersey and New York Corridor. National TLS interconnects Ethernet TLS with an Interexchange Carrier or other Service Provider, allowing the customers' data to be transported to a different Ethernet TLS in a different LATA by use of National TLS Ethernet Virtual Circuits across the Telephone Company's Multi-Protocol Label Switching network ("National TLS Network"). (T)

Ethernet TLS is available in two service types: Ethernet Multipoint Service (EMS) and Ethernet Relay Service (ERS). EMS is a connection-less Ethernet TLS service that allows connectivity among multiple customer designated locations within a LATA. ERS is a connection-oriented Ethernet TLS service that allows point-to-point connectivity between customer designated locations within a LATA. (N)

EMS and ERS are available in two interfaces: User to Network Interface (UNI) or Network to Network Interface (NNI). Ethernet Virtual Circuits (Ethernet TLS EVCs), which are available with the ERS service type only, are required to create point-to-point virtual connections. (C)  
(C)  
(N)  
(N)

- (a) The UNI Port With Access Line Connection consists of a dedicated fiber pair that provides a link from the customer's premises to one of the Telephone Company's TLS switches and the appropriate port interface connection.
- (b) The NNI Port Only Connection provides a port Interface connection from an interexchange carrier's network or service provider's point of presence to one of the Telephone Company's TLS switches.

Certain material previously found on this page can now be found on 5<sup>th</sup> Revised Page 16-136.1.

(Issued under Transmittal No. 495)

Issued: October 4, 2004

Effective: October 19, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service(A) General

- (c) The Ethernet TLS EVC provides an Ethernet point-to-point virtual connection between customer locations. (N)  
(N)

UNIs, NNIs and Ethernet TLS EVCs are further described in (B) (C)  
following. (M)

National TLS consists of two service components: National TLS (T)  
Ethernet Virtual Circuit (National TLS EVC) and Internet Protocol |  
(IP) Port. National TLS EVCs and IP Ports are further described in (T)  
(B) (2) following. (M)

- (2) Ethernet TLS creates a network with the ability to function as a shared public network. The customer must select either Ethernet (C)  
Multipoint Service (EMS) or Ethernet Relay Service (ERS) as the |  
service type for each domain. (C)

With the EMS service type, Ethernet TLS protects data privacy by (T)  
using closed user groups (CUGs), also known as virtual LANs. CUGs  
or virtual LANs are used to provide traffic separation, privacy and  
security between customers on the shared switch and backbone. When  
Ethernet TLS is used to access IP-VPN Service, CUGs or virtual LANs  
are between a customer designated premises and the IP-VPN network.  
When Ethernet TLS is used to access the National TLS Network, CUGs  
or virtual LANs are between a customer designated premises and the  
National TLS Network. Subscribers in a CUG can only access their  
own data. An EMS domain is comprised of the access lines (C)  
designated by the customer to be included in a closed user group |  
(CUG) or virtual LAN. EMS provides multipoint-to-multipoint |  
connectivity among all of the customer's access lines within a |  
given domain. (C)

With the ERS service type, Ethernet TLS EVCs provide point-to-point (N)  
virtual connectivity between two customer access lines, between a |  
customer's access line and an NNI, between a customer's access line |  
and an IP-VPN i-VC or between a customer's access line and a |  
National TLS EVC. An ERS domain is comprised of the Ethernet TLS |  
EVCs (one Ethernet TLS EVC = one virtual LAN) designated by the |  
customer to be included in the ERS domain. |

A customer may have more than one domain within a LATA, but |  
connections between EMS domains or between domains of different |  
service types are not permitted. (N)

Certain material on this page formerly appeared on 6<sup>th</sup> Revised Page 16-136.

(Issued under Transmittal No. 495)

Issued: October 4, 2004

Effective: October 19, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service(B) Service Components(1) Ethernet TLS

The major components of Ethernet TLS are:

UNI Port With Access Line Connection  
 NNI Port Only Connection  
 Ethernet TLS Ethernet Virtual Circuit (EVC) (N)  
 Interoffice Mileage  
 Domain/LAN Extension Equipment Charges  
 Optional Features

(a) User Network Interface (UNI) Port With Access Line Connection

UNI Port With Access Line Connections, which are available at 10, 100 and 1000 Mbps, provide connectivity between the customer premises and the serving wire center. UNI Port With Access Line Connection is only available where facilities and conditions permit. UNI Port With Access Line Connections are available as either EMS or ERS. Connectivity can be established only between/among UNI/NNIs of the same service type. (C)

(b) Network to Network Interface (NNI) Port Only Connection

NNI Port Only Connections are available at the speed of 1000 Mbps. The TLS NNI Port Only configuration is used for connecting two networks together for bidirectional messaging and is available on a private basis only. NNI Port Only Connections are available as either EMS or ERS. Connectivity can be established only between/among UNI/NNIs of the same service type. (C)

Interoffice transport from a customer's serving wire center to the TLS switch is not included. Such transport, when required, is the responsibility of the customer and must be ordered separately from the appropriate section of this tariff.

Access to NNI Port Only Connections is provided via LAN Extension Service and is subject to the regulations, rates and charges specified in Section 7 of this tariff. The channel speed of the LAN Extension Service channel must be sufficient to accommodate the NNI Port speed.

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(Issued under Transmittal No. 495)

Issued: October 4, 2004

Effective: October 19, 2004

Vice President, Federal Regulatory  
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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(B) Service Components (Cont'd)(1) Ethernet TLS (Cont'd)(c) Ethernet TLS Ethernet Virtual Circuit (Ethernet TLS EVC)

(N)

Ethernet TLS EVCs, which are available at 10, 100 and 1000 Mbps, provide point-to-point virtual Ethernet connectivity between two UNIs, between a UNI and an NNI, between a UNI and a National TLS EVC or between a UNI and an IP-VPN i-VC. Ethernet TLS EVCs are only available with ERS.

Ethernet TLS EVCs are available with the following class of service:

ERS Standard - ERS Standard provides no performance guarantees. The ERS-Standard Ethernet TLS EVC is designed for customer applications that do not require bandwidth or delay guarantees.

(N)

(Issued under Transmittal No. 495)

Issued: October 4, 2004

Effective: October 19, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(B) Service Components (Cont'd)(1) Ethernet TLS (Cont'd)(d) Interoffice Mileage

(T)

If customer's normal serving wire center is not equipped with TLS equipment, customer may obtain service from a TLS equipped wire center by ordering interoffice mileage. Interoffice mileage charges will apply in addition to TLS UNI/NNI charges. The dB loss cannot exceed the maximum allowable range, as specified in (D)(2) following.

The Telephone Company has no obligation to notify the customer when TLS equipment is deployed in customer's normal serving wire center or in a serving wire center that is closer to the customer's normal serving wire center. Should the customer decide to initiate a move of its TLS facilities when service becomes available in its normal serving wire center or a closer serving wire center, the regulations set forth in (E)(11) following will apply.

(e) Domain/Ethernet TLS EVC/LAN Extension Equipment Changes

(C)

A domain change is the reassignment of the customer's computer data to different virtual LAN, at the customer's request. The change is accomplished via software changes in the Telephone Company's database.

An Ethernet TLS EVC change is any change in the bandwidth of an Ethernet TLS EVC.

(N)

(N)

LAN extension equipment changes, other than for maintenance or repair, involve the physical replacement of Telephone Company-provided network interface on an existing TLS access line, at the same location on the customer's premises.

(Issued under Transmittal No. 495)

Issued: October 4, 2004

Effective: October 19, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(B) Service Components (Cont'd)(1) Ethernet TLS (Cont'd)(f) Optional Features (T)1. Customer Service Management (CSM)

CSM is an optional feature that provides customers with web-based reports. The reports give the customer the ability to extract "read-only" network traffic information, enabling them to monitor and manage their network performance. CSM is provided per customer domain. (T)

CSM is available where conditions and facilities permit. CSM is not available with National TLS.

The Telephone Company reserves the right to temporarily interrupt CSM for maintenance, for software upgrades and in emergency situations.

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(Issued under Transmittal No. 495)

Issued: October 4, 2004

Effective: October 19, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(B) Service Components (Cont'd)(2) National TLS

National TLS consists of two service components: National TLS (T)  
Ethernet Virtual Circuits (National TLS EVCs) and Internet Protocol (T)  
(IP) Port.

(a) National TLS Ethernet Virtual Circuits (National TLS EVCs) (T)

The National TLS EVC provides a point-to-point virtual connection (T)  
from Ethernet TLS into the National TLS Network where it  
physically connects to an IP Port on the Telephone Company's  
network. National TLS EVCs are available at 4, 6, 8, 10, 20, 30, (C)  
40, 50, 60, 70, 80, 90, 100, 200, 300, 400, 500 and 600 Mbps and  
only where facilities and conditions permit.

The customer must utilize suitable Ethernet TLS access facilities  
to connect to the National TLS EVC on the National TLS Network. (T)

The customer's selection for speed and/or service performance  
issues on the Ethernet TLS access facilities may impact the  
performance of National TLS. The associated regulations, rates  
and charges for Ethernet TLS apply for such access facilities.

(b) IP Port

The IP Port service component is available subject to the  
regulations set forth in Section 22.2.3(B). Technical  
specifications for the IP Port are set forth in Section 22.2.8.

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(Issued under Transmittal No. 495)

Issued: October 4, 2004

Effective: October 19, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(B) Service Components (Cont'd)(2) National TLS(c) Availability

National TLS is subject to available equipment and facilities.

Subject to the foregoing, IP Ports are offered at the following (T)  
CLLIs. (T)

CLLI  
CMDNNJCE  
HMSQNJHS  
NWRKNJ02  
NBWKNJNB

Subject to the availability of equipment and facilities, EVCs are (T)  
offered in the following LATAs. To determine what points are (T)  
within a specific LATA, refer to the Local Exchange Routing Guide  
(LERG).

LATA  
222  
222  
224  
224

Subject to general regulations contained in Section 2 preceding,  
National TLS will be provided seven days a week, 24 hours a day,  
with the exception specified in (D) (7) following.

(Issued under Transmittal No. 487)

Issued: September 2, 2004

Effective: September 17, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

16. Packet Data Services (Cont'd)

16.11 Transparent LAN Service (Cont'd)

(C) Technical Specifications

The technical specifications for Ethernet TLS are delineated in  
IEEE802.3-2002 and IEEE802.1Q.

(C)

(Issued under Transmittal No. 495)

Issued: October 4, 2004

Effective: October 19, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(D) Terms and Conditions

- (1) A typical Ethernet TLS network will be limited to central offices in a specific geographic location. Customers gain access to the shared Ethernet TLS network via TLS equipment deployed in the customer's serving wire center.
- (2) Ethernet TLS is available to customers whose serving wire center is equipped with TLS equipment and whose location is within the maximum allowable range of the serving central office. The maximum allowable range is determined by the dB loss rate so the actual distance between the TLS equipped serving central office and the customer's location may vary due to the facility used in each serving arrangement. The maximum dB loss cannot exceed 20dB @1310nm for 10 Mbps service, 26dB @1310nm for 100 Mbps service, 9.5dB @1330nm for 1000 Mbps, or 22dB @1550nm for 1000 Mbps.
- (3) Ethernet TLS includes:

	<u>When Provided With</u>	
	<u>UNI Interface</u>	<u>NNI Interface</u>
Network Interface Device (NID) at Customer's Premises to terminate the fiber pair.	X	
Dedicated fiber pair from Customer's premises to the serving wire center.	X	
Network management including fault monitoring and diagnostics, performance and network configuration applications, and manual monitoring when necessary.	X	X
A dedicated port on the switch.	X	X
One or more Ethernet TLS EVCs (ERS service type only)	X	X
Interoffice mileage, where applicable.	X	X
Optional features, if applicable.	X	X

(N)  
(N)

(Issued under Transmittal No. 495)

Issued: October 4, 2004

Effective: October 19, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(D) Terms and Conditions (Cont'd)(4) Availability of Service

Subject to general regulations contained in Section 2 preceding, (C)  
 Ethernet TLS will be provided seven days a week, 24 hours a day, (T)  
 from wire centers equipped to provide this service with the (C)  
 exception specified in (D) (7) following. Ethernet TLS is (C)  
 available where facilities and conditions permit. Special  
 construction charges may apply.

(5) Ethernet TLS Connections (T)

- (a) The network interface is the LAN interface on the TLS equipment at the customer's premises. The customer is responsible for any inside wire required in connecting the LAN to the TLS equipment.
- (b) The customer is responsible for installation, operation, and maintenance of any customer-provided equipment.
- (c) The Company has the service responsibility up to and including the network interface.

(6) Limitations

The customer's location must be within the maximum allowable range of the Ethernet TLS equipped wire center. (T)

(7) Maintenance Window

To meet the Ethernet TLS customers' requirements, occasional network upgrades must be performed. These network upgrades are needed to provide improved performance and new features. Generally, these upgrades will be performed between the hours of 11 p.m. and 8 a.m. Network upgrades are planned to provide the customer with reasonable and timely notification in order to minimize any impact on the customer's service. (T)

To meet the National TLS customers' requirements, the Telephone Company performs occasional network upgrades as needed to provide the service and enhancements to the service. Generally, these upgrades will be performed between the hours of 2:00 AM and 6:00 AM on Tuesdays and Thursdays. The Telephone Company cannot guarantee availability of EVCs or IP Ports during such periods that maintenance and network upgrades are being performed. (N)

However, the Telephone Company reserves the right to perform maintenance at any time, at its discretion, when it believes such unscheduled maintenance is necessary to maintain network performance. The Telephone Company will make reasonable effort to provide notice to those customers likely to be affected by such maintenance work. (N)

Certain material formerly appearing on this page currently appears on 5th Revised Page 16-139

(Issued under Transmittal No. 448)

Issued: May 24, 2004

Effective: June 8, 2004

Vice President, Federal Regulatory  
 1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(D) Terms and Conditions (Cont'd)(8) Transmission Mode for Ethernet TLS

The transmission mode supported is dependent on the access rate.  
The supported transmission mode for 10 Mbps, 100 Mbps and 1000 Mbps access is full duplex.

(E) Application of Rates

The following rate elements are applicable to TLS:

Ethernet TLS

- UNI Port With Access Line Connection
- NNI Port Only Connection
- Ethernet TLS Ethernet Virtual Circuit (Ethernet TLS EVC) (N)
- Interoffice Mileage
- Domain/Ethernet TLS EVC/LAN Extension Equipment Changes (C)
- Optional Features
  - Customer Service Management (CSM)

National TLS

- National TLS Ethernet Virtual Circuit (National TLS EVC) (T)
- Internet Protocol (IP) Port
- National TLS Administrative Change Charge (T)
- National TLS EVC Expedite Charge (T)

(1) UNI Port With Access Line Connection

A monthly rate applies on a per-line basis, based on the speed of the access connection (i.e., 10 Mbps, 100 Mbps, or 1000 Mbps). The UNI Port With Access Line Connection is offered on a month-to-month basis or as a 3 Year or 5 Year Term Plan. A nonrecurring charge applies to the installation of the UNI Port With Access Line Connection provided on a month-to-month basis.

(2) NNI Port Only

A monthly rate applies on a per port connection basis. The NNI Port Only Connection is offered on a 3 Year or 5 Year Term Plan. A nonrecurring charge applies to the installation of the NNI Port Connection.

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(Issued under Transmittal No. 495)

Issued: October 4, 2004

Effective: October 19, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(E) Application of Rates (Cont'd)(3) Ethernet TLS Ethernet Virtual Circuit (Ethernet TLS EVC) (N)

For customers who order the ERS service type with the Standard class of service, a monthly rate applies on a per EVC basis and varies by the bandwidth selected (10 Mbps, 100 Mbps and 1000 Mbps). The EVC bandwidth must be equal to the lower speed bandwidth of the two end points it is connecting. The number of EVCs permitted on a domain is limited as follows:

10 Mbps	=	1 EVC	
100 Mbps	=	No more than 10 EVCs	
1000 Mbps	=	No more than 75 EVCs	(N)

(4) Interoffice Mileage (T)

The Interoffice Mileage charge is applied per line based on the Per-Mile charge multiplied by the distance between the customer's serving central office and the nearest TLS equipped central office. The mileage measurement is calculated using the V&H Coordinates method as specified by NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. No. 4. This monthly charge applies in addition to the applicable rates and charges for the TLS Access Line.

(5) Domain/Ethernet TLS EVC/LAN Extension Equipment Changes (C)

Customer requests for changes in domains, changes in bandwidth of Ethernet TLS EVCs or replacement of LAN extension equipment will be charged a nonrecurring charge per location per change. (C)

(6) Optional Features (T)(a) Customer Service Management (CSM)

A monthly rate and a nonrecurring charge apply for each CSM arrangement. The customer will be charged on a per domain basis. The nonrecurring charge applies in addition to all other applicable service charges. (C)

(7) National TLS Ethernet Virtual Circuit (National TLS EVC) (T)

A monthly rate applies on a per National TLS EVC basis and is differentiated by the speed of the connection. The National TLS EVC is offered under 1 Year, 2 Year, or 3 Year Term Plans. A nonrecurring charge applies to the installation of a National TLS EVC provided under a 1 Year Term Plan. (T)

(8) IP Port (T)

Rates and charges for IP Port are set forth in Section 22.2.9(A) (2) and 22.2.10(B) following.

(Issued under Transmittal No. 495)

Issued: October 4, 2004

Effective: October 19, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(E) Application of Rates (Cont'd)(9) National TLS Administrative Change Charge (T)

A nonrecurring National TLS Administrative Change Charge applies in the following circumstances: (T)

- When a customer requests a later provisioning due date
- When a customer cancels an order which is already in progress
- When a customer upgrades service in accordance with (14) (c) (T)
- following
- When a National TLS EVC is remapped at the customer's request. (T)
- If remapping of a National TLS EVC is required as a result of | (T)
- the disconnection of an IP Port, the National TLS Administrative Change Charge will apply to the IP Port customer of record.

One National TLS Administrative Change Charge shall apply per order. (T)

(10) National TLS EVC Expedite Charge (T)

The Telephone Company offers an expedite capability on National TLS EVCs but does not guarantee that every request will be accepted or expedited per the requested time. When requested by the customer, the National TLS EVC Expedite Charge will apply, on a per National TLS EVC basis, when the Telephone Company meets an interval shorter than the standard interval. The National TLS EVC Expedite Charge is in lieu of the Special Handling Charge set forth in Section 5.2.2(D) preceding. (T)

Expedite capability is not offered on the IP Port service component.

(11) Minimum Period (T)

The minimum period for Ethernet TLS under the month-to-month plan is nine months. The minimum period for National TLS is twelve months. The regulations applicable to TLS provided under a Term Payment Plan are specified in (13) following. (T)

(12) Moves and Changes (T)

When the customer requests a move or relocation of the Ethernet TLS Access Line to a different address and/or different building, the move or relocation will be treated as a termination of the existing service and the establishment of a new service for the application of all charges. Early termination charges may be waived under the conditions specified in (14) (d) following. (T)

(Issued under Transmittal No. 495)

Issued: October 4, 2004

Effective: October 19, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005



## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(E) Application of Rates (Cont'd)(13) Term Payment Plan

(T)

The TLS UNI Port With Access Line Connection, NNI Port Only  
Connection and National TLS EVC are offered under the Term Payment  
Plans specified in (F) following.

(T)

(a) End of Term Options

1. Prior to the end of the term commitment period, the customer may select one of the following options, to be effective at the end of the term:
  - Renew for the same commitment period;
  - Commit to a new term period of shorter or longer duration;
  - Arrange for a change of service; or
  - Discontinue service
2. In the event the customer does not select one of the above options, the customer will be converted to the shortest-term period available under tariff (i.e., month-to-month, etc) for the same service, and will be subject to the applicable term commitment, if any, unless the customer terminates service within sixty (60) days of the conversion date.

(Issued under Transmittal No. 495)

Issued: October 4, 2004

Effective: October 19, 2004

Vice President, Federal Regulatory  
1300 I Street, NW, Washington, D.C. 20005

## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(E) Application of Rates (Cont'd)(14) Termination Liability

(T)

- (a) In the event the service is terminated by the customer prior to completion of the current term commitment period, the customer shall be liable for an early termination charge, except as noted in (b), (c) or (d) following.

1. Termination Liability for Ethernet TLS

Termination liability will be 25% of the monthly recurring charge(s) (MRC) for Ethernet TLS for the remainder of the term. For customers who entered into term plans prior to December 27, 2003, when there is a term plan less than the actual time the term plan has been in effect, the termination liability charge will be the lesser of:

- the difference between the discounted monthly rates resulting from the highest term plan commitment period that could be satisfied prior to the disconnection and the discounted monthly rates resulting from the term plan multiplied by the actual number of months the service has been in effect; or
- 25% of the monthly recurring charge(s) (MRC) for the remainder of the term. For example:

25% X MRC X # of Lines/Channels/Paths X Remainder of Term =  
Termination Charge

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16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(E) Application of Rates (Cont'd)(14) Termination Liability (Cont'd) (T)

## (a) (Cont'd)

2. Termination Liability for National TLS:

Termination liability applies to National TLS EVC and IP Port service components when National TLS is disconnected after the minimum period but prior to the expiration of the term plan. (T)

Termination liability regulations applicable to IP Port service components are set forth in Section 22.2.9(D) following.  
Termination liability regulations applicable to National TLS EVC service components are set forth as follows: (T)

For disconnects prior to the expiration of a one-year term plan, termination liability is equal to the minimum period obligation, or 100% of the applicable MRCs for the unexpired portion of the plan.

For disconnects within the first twelve months of a two- or three- year term plan, the termination liability charge is equal to 100% of the applicable MRCs for the unexpired portion of the first twelve months and 50% of the applicable MRCs for the remainder of the plan.

For disconnects after the first twelve months of a two- or three- year term plan, the termination liability charge is equal to 50% of the applicable MRCs for the remainder of the plan.

- (b) Early termination charges will apply only to those rate elements under a term commitment period. If any rates for the service are increased during the term period, exclusive of any increase due to local, state, or federal fees, taxes, or surcharges, the customer may terminate the service without incurring an early termination charge.

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16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(E) Application of Rates (Cont'd)(14) Termination Liability (Cont'd) (T)

(c) Early termination charges for Ethernet TLS will not be assessed under the following circumstances:

1. The customer moves its existing service either to a new location within the same address and/or same building (inside move) or to a new location (outside move) and maintains that service for the remainder of the term;
2. The customer attempts to move the existing service to a new location within the Company's service area, but the service is unavailable;
3. The customer converts a new term commitment plan for the same service before the current term commitment expires, and the dollar value of the new term commitment is equal to or greater than the remaining dollar value of the current term commitment; or
4. The customer changes to another service or upgrades service to a higher speed or capacity under a term commitment, provided the following conditions are met:

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16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(E) Application of Rates (Cont'd)(14) Termination Liability (Cont'd) (T)

(c) (Continued)

4. (Continued)

- a. The dollar value of the new term commitment is equal to or greater than the remaining dollar value of the current term commitment,
- b. Both the existing and new services are provided solely by the Company; and
- c. The order to discontinue the existing service and the order for the new or upgraded service are received by the Company at the same time.

(d) Early termination charges for National TLS will not be assessed under the following circumstances:

1. The customer subscribes to a new term commitment for the same service before the term plan expires, and the aggregate amount of all MRCs included under the new term plan is equal to or greater than the aggregate amount of the MRCs remaining under the expiring term plan. A National TLS Administrative Change Charge will apply if there is no nonrecurring charge associated with the new term plan. (T)
2. The customer upgrades National TLS EVC service components under a term plan to a higher speed provided that each of the following conditions are met. A National TLS Administrative Change Charge will apply if there is no nonrecurring charge associated with the new term plan. (T)
  - The aggregate amount of all MRCs included under the term plan for the upgraded service components is equal to or greater than the aggregate amount of the MRCs remaining for the existing service components;
  - Both the existing and the upgraded service components are provided solely by the Telephone Company; and
  - The order to discontinue the existing National TLS EVC service components and the order for the upgraded service components are received by the Telephone Company at the same time on the same order. (T)

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(E) Application of Rates (Cont'd)(14) Termination Liability (Cont'd)

(T)

## (d) (Cont'd)

3. In the event the Telephone Company initiates a rate increase, exclusive of any increase due to local, state or federal fees, taxes or surcharges, and the total discounted monthly rates increase by 8% or more, the customer may cancel its term plan for the affected service without termination liability. The customer must exercise its option to cancel the term plan for the affected service within 30 days of the date of the effective rate increase. The Telephone Company will provide written notification to the customer before any rate increase is filed in the tariff, and said notification will apprise customer of its options.

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(F) Rates and Charges

	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>	
(1) TLS UNI Port With Access Line Connection, EMS or ERS - Standard, per line				(C) (C)
(a) Month to Month Plan	LNHLX			
10 Mbps		\$1,300.00	\$1,200.00	
100 Mbps		1,300.00	2,400.00	
1000 Mbps		1,300.00	4,000.00	
(b) Three Year Plan	LNHL3			
10 Mbps		N/A	1,000.00	
100 Mbps		N/A	2,000.00	
1000 Mbps		N/A	3,500.00	
(c) Five Year Plan	LNHL5			
10 Mbps		N/A	900.00	
100 Mbps		N/A	1,800.00	
1000 Mbps		N/A	3,200.00	
(2) NNI Port Only Connection, EMS or ERS - Standard, per port				(C)
(a) Three Year Plan				
1000 Mbps	P9CB3	N/A	3,700.00	
(b) Five Year Plan				
1000 Mbps	P9CB5	N/A	3,500.00	
(c) NNI Port Only Installation per port	NHCES	1,300.00	N/A	
(3) Ethernet TLS Ethernet Virtual Circuit, per EVC				(N)             (N)
Standard				
10 Mbps	EVVFX	200.00	50.00	
100 Mbps	EVVGX	200.00	100.00	
1000 Mbps	EVVHX	200.00	200.00	
(4) Interoffice Mileage, per line	1HOLS			(T)
Per Mile		N/A	100.00	
(5) Domain/Ethernet TLS EVC/ LAN Extension Equipment Changes	NHCER	400.00	N/A	(T)
(6) Customer Service Management, per customer, Per Domain	NM9WX	350.00	150.00	(T) (T)

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(F) Rates and Charges (Cont'd)

	Nonrecurring <u>Charge</u>	Monthly <u>Rate</u>	(T)
7. National TLS Ethernet Virtual Circuit (EVC), per EVC			(T)
(a) One Year Plan			
4 Mbps	\$200.00	\$ 100.00	(N)
6 Mbps	200.00	145.00	
8 Mbps	200.00	180.00	(N)
10 Mbps	200.00	210.00	
20 Mbps	200.00	400.00	
30 Mbps	200.00	590.00	
40 Mbps	200.00	780.00	
50 Mbps	200.00	970.00	
60 Mbps	200.00	1,160.00	
70 Mbps	200.00	1,330.00	
80 Mbps	200.00	1,500.00	
90 Mbps	200.00	1,660.00	
100 Mbps	200.00	1,700.00	
200 Mbps	200.00	3,300.00	
300 Mbps	200.00	4,900.00	
400 Mbps	200.00	6,400.00	
500 Mbps	200.00	7,900.00	
600 Mbps	200.00	9,300.00	
(b) Two Year Plan			
4 Mbps	N/A	100.00	(N)
6 Mbps	N/A	145.00	
8 Mbps	N/A	180.00	(N)
10 Mbps	N/A	210.00	
20 Mbps	N/A	390.00	
30 Mbps	N/A	570.00	
40 Mbps	N/A	750.00	
50 Mbps	N/A	920.00	
60 Mbps	N/A	1,100.00	
70 Mbps	N/A	1,250.00	
80 Mbps	N/A	1,410.00	
90 Mbps	N/A	1,575.00	
100 Mbps	N/A	1,600.00	
200 Mbps	N/A	3,200.00	
300 Mbps	N/A	4,700.00	
400 Mbps	N/A	6,300.00	
500 Mbps	N/A	7,800.00	
600 Mbps	N/A	9,000.00	

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## ACCESS SERVICE

16. Packet Data Services (Cont'd)16.11 Transparent LAN Service (Cont'd)(F) Rates and Charges (Cont'd)

	Nonrecurring <u>Charge</u>	Monthly <u>Rate</u>	(T)
(7) National TLS Ethernet Virtual Circuit (EVC), per EVC (Cont'd)			(T)
(c) Three Year Plan			
4 Mbps	N/A	\$ 90.00	(N)
6 Mbps	N/A	125.00	
8 Mbps	N/A	145.00	(N)
10 Mbps	N/A	165.00	
20 Mbps	N/A	330.00	
30 Mbps	N/A	495.00	
40 Mbps	N/A	640.00	
50 Mbps	N/A	800.00	
60 Mbps	N/A	950.00	
70 Mbps	N/A	1,095.00	
80 Mbps	N/A	1,235.00	
90 Mbps	N/A	1,380.00	
100 Mbps	N/A	1,400.00	
200 Mbps	N/A	2,700.00	
300 Mbps	N/A	4,000.00	
400 Mbps	N/A	5,300.00	
500 Mbps	N/A	6,600.00	
600 Mbps	N/A	7,800.00	
(8) National TLS Administrative Change Charge, per request	\$200.00	N/A	(T)
(9) National TLS EVC Expedite Charge, per EVC	250.00	N/A	(T)

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